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# OAR quarterly index of current RESEARCH RESULTS

1 July-30 September 1964

Office of Aerospace Research  
United States Air Force





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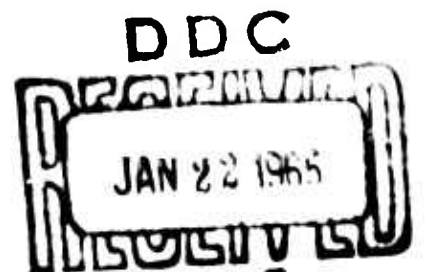
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# **OAR Quarterly Index of CURRENT RESEARCH RESULTS**

**1 JULY - 30 SEPTEMBER 1964**

**OFFICE OF AEROSPACE RESEARCH  
UNITED STATES AIR FORCE  
WASHINGTON, D. C.**





# FOREWORD

The primary mission of the Office of Aerospace Research is to plan and manage the Air Force research program. In addition, we carry out exploratory development for the Air Force Systems Command in the areas of Environment and Aerospace Environment. Finally, we conduct research in fields where we have special competence for the Air Force Systems Command and the Advanced Research Projects Agency, work on specific projects for the Defense Atomic Support Agency, and cooperate with the National Aeronautics and Space Administration on tasks of mutual interest.



We are aware of the urgent need to expedite the exchange of scientific and technical information within the DoD and between DoD elements and the scientific community. Personal contact has long been one of the best media for such interchange. In certain cases, this is all that is needed. But in other cases, in view of the rapidly increasing quantity of information, personal contact is not enough to meet the requirements for effective communication.

With this thought in mind, we published the OAR Cumulative Index of Research Results, 1959-1962 as a means for accelerating the interchange of scientific and technical information between scientist and scientist, and between the researcher and the user. This was followed by the OAR Cumulative Index of Research Results, 1963. In 1964 we began publishing the OAR Quarterly Index of Current Research Results to continue the tradition of making available to all who can use them the results of OAR research efforts. We hope that you will find this volume useful.

A handwritten signature in dark ink, reading "Don R. Ostrander". The signature is fluid and cursive.

DON R. OSTRANDER  
Major General, USAF  
Commander  
Office of Aerospace Research

# INTRODUCTION

The OAR Quarterly Index of Current Research Results is designed:

- to identify all technical reports produced and published by the various organizations within the Office of Aerospace Research during the quarter indicated.
- to provide a record of the results of research conducted and sponsored by each OAR organization.
- to furnish a ready reference for the identification of technical reports produced by particular authors or contractors, or under certain contracts, grants or projects.

Every effort has been made to include all research results published during this quarterly reporting period (both in-house and contractor technical reports and journal articles) as well as other research products which are not technical reports per se but have resulted wholly or in part from OAR support (translations, monographs, symposia proceedings, state-of-the-art studies, reviews and textbooks).

The OAR Quarterly Index of Current Research Results is divided into several parts

beginning with a bibliography of the reports published during the reporting period. This bibliography is organized into sections by monitoring organizations. Within each section, the technical reports are arranged alpha-numerically according to the report number assigned by each organization. Each bibliographic entry includes the following information (if available and applicable): the report number; corporate author; title and date; security classification of the report (if classified); the name(s) of the author(s); the Defense Documentation Center (DDC) accession number; the instrument (contract or grant) number; and the project and task numbers. Several indexes follow the bibliography and are keyed to it by the report numbers. These are: an author index; a corporate-author index; an instrument-number index; a project/task-number index; and a KWIC (Keyword-In-Context) index of the report titles.

Any questions concerning this publication, or suggestions for improving subsequent indexes of research results, should be directed to the Office of Scientific and Technical Information (RRY), Hq Office of Aerospace Research, USAF, 4th and Independence Ave., S.W., Washington, D.C. 20333.

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PROJ/TASK 7023 06

ARL 64 0155  
AF OAR AEROSPACE RESEARCH LABS  
THERMOMECHANICS RESEARCH LAB WRIGHT-PATTERSON AFB OHIO  
NATURAL CONVECTION FROM WALL SECTIONS OF ARBITRARY  
TEMPERATURE DISTRIBUTION BY AN INTEGRAL METHOD, 1964  
INTERN J HEAT MASS TRANSFER V7 PP501-516  
BY SCHERBERG M G  
DDC NUMBER 446869  
PROJ/TASK 7063 01

ARL 64 0156  
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WRIGHT-PATTERSON AFB OHIO  
A NOTE ON CERTAIN INTEGRALS, MAR 1964  
J MATH PHYS VXLIII N1  
BY NASARAJA K S  
DDC NUMBER 446870  
PROJ/TASK 7064

ARL 64 0157  
AF OAR AEROSPACE RESEARCH LABS GENERAL PHYSICS LAB  
WRIGHT-PATTERSON AFB OHIO  
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DDC NUMBER 447291  
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RESEARCH LAB WRIGHT-PATTERSON AFB OHIO  
THE FORMATION OF PASSIVATING INTERNAL INDIUM SESQUIOXIDE  
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BY RAPP R A  
FRANK D F  
ARMITAGE J V  
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STUDY OF DIRECTIVE VLF WAVE ANTENNAS FOR RECEPTION OF  
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30 AUGUST 1963  
BY CLAPP R F DDC NUMBER 448341  
MAXWELL J C INSTRUMENT AF 19<628>01697  
COLBURN C H PROJ/TASK 4662 05

AFCL 63 0679  
HAMBURGER-STERNWARTZ HAMBURG WEST GERMANY  
LIQUID-DYE FILTERS WITH NARROW PASS-BANDS - PART 1. RANGE  
3000 TO 4500 AU, 1 APR 1963  
BY WURM K  
INSTRUMENT AF 61<052>00259  
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AFCL 63 0730  
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SPECTROPHOTOMETRY OF GALACTIC NEBULAE ORION NEBULA II,  
1 JUN 1963  
BY WURM K  
INSTRUMENT AF 61<052>00259  
PROJ/TASK 8635 01

AFCL 63 0765  
GENERAL DYNAMICS CORP ASTRONAUTICS SAN DIEGO CALIF  
RESEARCH DIRECTED TOWARD DEVELOPMENT OF A PROTOTYPE LUNAR  
TRANSPONDER (INCLUDING A FEASIBILITY STUDY ON THE  
CONFIGURATION OF FOUR EARTH-BASED TRACKING STATIONS,  
15 SEP 1963  
BY SHAW F W  
INSTRUMENT AF 19<628>01609  
PROJ/TASK 8654 03

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19 AUG 1963  
BY MORGAN M G  
INSTRUMENT AF 19<604>03055  
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NIELSEN A H  
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OZONESONDE OBSERVATIONS OVER NORTH AMERICA - VOLUME 2  
JULY 1964  
BY HERING W S  
BORDEN T R JR  
PROJ/TASK 8631 02

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PROJ/TASK 5621 04

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CHICAGO U ILL  
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JAN 1964  
BY INGRAM M G  
INSTRUMENT AF 19<604>08011  
PROJ/TASK 7635 03

AFCL 64 0137  
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RESEARCH IN NONLINEAR CODES, MAR 1964  
BY TURYN R  
INSTRUMENT AF 19<628>02479  
PROJ/TASK 5628 01

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BY SLEATOR F R  
INSTRUMENT AF 19<604>06655  
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1 FEBRUARY 1964  
BY STEWART R M JR  
POST R E  
INSTRUMENT AF 19<604>05457  
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BY PICKETT J M  
POLLACK I  
PROJ/TASK 5628 02

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PROJ/TASK 8652 03

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RAYTHEON CO WALTHAM MASS  
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THEIR EFFECTS, DEC 1963  
BY HOLWAY L H  
KAHN D  
ROLFE E  
INSTRUMENT AF 19<628>02802  
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REAL TIME AND DAYLIGHT GEODETIC STELLAR CAMERAS STUDY,  
6 MAR 1964  
BY KOHN H T  
INSTRUMENT AF 19<628>02990  
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26 JUN 1964  
BY CARRAGAN W  
MICHALKO F  
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SMITH R  
LUEHR C  
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OBSERVATIONS OF TRANSIENT AND BACKGROUND VLF, ELF  
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BY TEPLY L  
WENTWORTH R C  
LAMBERT K G  
PRENTISS H V  
AMUNDSEN K D  
HILLEDAHL D R  
INSTRUMENT AF 19<628>00462  
PROJ/TASK 8653

AFCL 64 0240  
GENERAL DYNAMICS CORP ASTRONAUTICS SAN DIEGO CALIF  
RESEARCH DIRECTED TOWARD THE INVESTIGATION OF SUITABILITY  
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CALIBRATION SATELLITE - 1 JULY 1964  
BY LINDKVIST F C  
BRAUN R  
INSTRUMENT AF 19<628>03274  
PROJ/TASK 5930 04

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NATIONAL CO INC MALDEN MASS  
INVESTIGATION OF MULTIPLE SPIN FLIP PROCESSES TO PRODUCE  
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BY MYERS G W  
INSTRUMENT AF 19<628>00456  
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BY MESINGER F  
INSTRUMENT AF 61<052>00366  
PROJ/TASK 8604 03

AFCL 64 0253  
WASHINGTON U SEATTLE  
THINNING AND BROADBANDING ANTENNA ARRAYS BY UNEQUAL  
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BY ISHIMARU A  
CHEN Y S  
INSTRUMENT AF 19<628>02763  
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JAN 1964  
BY BYARD P L  
ROLL R E  
SLETTEBAK A  
INSTRUMENT AF 19<604>04055  
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BY HUGHES M P  
DOWNES D  
MURRAY C  
DDC NUMBER 443581  
INSTRUMENT AF 19<628>02370  
PROJ/TASK 7649 04

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INSTRUMENT AF 19<604>63-55  
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BY COVERT F F  
COFFIN J R  
INSTRUMENT AF 19<628>02434  
PROJ/TASK 4642 02

AFCL 64 0289  
NEW YORK U NEW YORK  
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USING SIMPLE CORRELATION DETECTION, FEB 1964  
BY SALTZBERG B R  
KURZ L  
INSTRUMENT AF 19<604>06168  
PROJ/TASK 4610 03

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TRANSVERSE FOCAL REGION OF A SPHERICAL REFLECTOR, PART I,  
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BY SPENCER R C  
HYDE G  
INSTRUMENT AF 19<628>02758  
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UPPER ATMOSPHERE PHYSICS LAB L G HANSCOM FIELD MASS  
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DERIVED FROM SOLAR EXTREME ULTRAVIOLET ABSORPTION  
MEASUREMENTS - APRIL 1964  
J GEOPHYS RES V68 N24 PP6413-6417 15 DEC 1963  
BY MALL L A  
SCHWEIZER W  
MINTREGLER H E  
DDC NUMBER 446732  
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AFCL 64 0298  
BRANDFIS U WALTHAM MASS  
PHOTOIONIZATION, ELECTRON-TRAPPING AND PHOTOCONDUCTION IN  
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BY LINSCHITZ H  
HEBERT R A  
INSTRUMENT AF 19<604>04536  
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INITIAL PHASE OF A BASIC SYSTEM STUDY FOR VECTOR MAGNETIC  
FIELD MEASUREMENTS FROM A JAVELIN ROCKET NOSE CONE,  
1 DEC 1962-31 DEC 1963  
BY MINNEMAN M J  
GRUMET A  
DDC NUMBER 442426  
INSTRUMENT AF 19<628>02372  
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PENNSYLVANIA STATE U UNIVERSITY PARK  
RESEARCH IN THE FIELD OF HIGH RESOLUTION INFRARED  
SPECTROSCOPY, 15 MAR 1964  
BY MCCUBBIN T K  
INSTRUMENT AF 19<604>05458  
PROJ/TASK 8603 01

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DEVELOPMENT OF THE AN/AMQ-21 MULTICHANNEL RADIOSONDE,  
JUN 1964  
BY ASHFORD S L  
GLEISNER W P  
INSTRUMENT AF 19<628>02834  
PROJ/TASK 6682 01

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HAWAII U HONOLULU  
THE UTILIZATION OF TIROS PICTURES OF SOME SELECTED STUDIES  
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BY TAYLOR R C  
INSTRUMENT AF 19<604>06156  
PROJ/TASK 8698 02

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MARTIN MARIETTA CORP RIAS INC BALTIMORE MD  
STUDY OF CESIUM ON REFRACTORY METALS USING FIELD EMISSION  
MICROSCOPY, APR 1964  
BY GUMNICK J L  
DALY G J  
HILDUM J S  
DDC NUMBER 603902  
INSTRUMENT AF 19<628>02831  
PROJ/TASK 8659 02

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500-KC ELECTROMAGNETIC NOISE PULSE MEASUREMENTS OF  
SELECTED VERTICALLY CONVECTING CLOUD DEVELOPMENT  
28 FEBRUARY 1964  
BY KOHL D A  
INSTRUMENT AF 19<628>02781  
PROJ/TASK 8620 01

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UTAH STATE U LOGAN  
ONBOARD ANGLE OF ATTACK MEASUREMENT BY OPTICAL MEANS,  
1 MAY 1964  
BY LAMBERT R H  
DDC NUMBER 352363  
INSTRUMENT AF 19<628>03241  
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PHYSICAL STUDIES INC KETTERING OHIO  
INELASTIC DISSOCIATIVE AND CHARGE EXCHANGE SCATTERING OF  
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BY BREENE R G JR  
INSTRUMENT AF 19<628>02925  
PROJ/TASK 7674

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3 APR 1964  
BY IIZUKA K  
INSTRUMENT AF 19<604>07262  
PROJ/TASK 7661 05

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31 MARCH 1964  
BY GOLUEKE C G  
OSWALD W J  
GEE H K  
INSTRUMENT AF 19<628>02462  
PROJ/TASK 6694 04

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DDC NUMBER 605810  
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BASE TRANSISTORS, 14 APR 1964  
BY KELLEY J J  
GHAUSI M S  
INSTRUMENT AF 19<628>00379  
PROJ/TASK 5628 06

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TANAKA Y  
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BY LISZKA L  
EGELAND A  
INSTRUMENT AF 61<052>00678  
PROJ/TASK 4643 02

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FLORENCE ITALY  
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BY RONCHI L  
SCHEGGI A M  
INSTRUMENT AF 61<052>00536  
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EXTRATERRESTRIAL LOW-FREQUENCY NOISE IN SPACE VEHICLES,  
MAR 1964  
BY HUGUENIN G R  
INSTRUMENT AF 19<604>06120  
PROJ/TASK 8605 04

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BY AMAT G  
BAILLY M  
INSTRUMENT AF 61<052>00369  
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MOLECULON RESEARCH CORP CAMBRIDGE MASS  
SYNTHESIS AND ELECTRICAL PROPERTIES OF BENZIMIDAZOLES  
AND HETEROCYCLIC QUINONOID COMPOUNDS, 30 APR 1964  
BY QREMYER A S DDC NUMBER 603276  
NICHOLS L D INSTRUMENT AF 19<628>02940  
PANAR M PROJ/TASK 6694 05  
HANNAUF C E  
TFICH A H  
TURRANSKY P

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STUDY OF PIGMENT SYSTEMS OF PHOTOSYNTHETIC ORGANISMS,  
28 APR 1964  
BY ALLEN M B  
INSTRUMENT AF 19<604>06636  
PROJ/TASK 6694 04

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ON A STUDY OF SPECIFIC METHODS OF MEASURING LUNAR GRAVITY,  
APR 1964  
BY LEVENSTEIN H  
SAVED P H INSTRUMENT AF 19<628>03855  
STEWART M J PROJ/TASK 7600 07  
WESSBECHER F

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WASHINGTON STATE U PULLMAN  
POLAR HIGH FREQUENCY RADIO PROPAGATION STUDY, 30 JUN 1964  
BY CRAINE L R DDC NUMBER 604248  
SCHRADER D H INSTRUMENT AF 19<628>02488  
HADALLER H PROJ/TASK 4603 04  
FLATT W A

AFCP 64 0366  
CALIFORNIA U LOS ANGELES  
OPTICAL STUDIES OF THE ATMOSPHERE, APR 1964  
BY SEKERA Z  
INSTRUMENT AF 19<604>08050  
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STANFORD RESEARCH INST MENLO PARK CALIF  
INVESTIGATION OF PROPAGATION-LIMITED COMPUTER NETWORKS  
APR 1964  
BY FLKAS B DDC NUMBER 603165  
GOLDBERG J INSTRUMENT AF 19<628>02902  
MINNICK R C PROJ/TASK 4641 01  
SHORT R A  
STONE H S

AFCP 64 0378  
BROWN U PROVIDENCE R I  
EXCITATION OF NONLINEAR CURRENTS AND GENERATION OF  
HARMONIC WAVES IN AN ISOTROPIC PLASMA, JUN 1964  
BY TANG T W  
WETZEL L INSTRUMENT AF 19<628>02498  
PROJ/TASK 5635 02

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BROOKLYN POLYTECHNIC INST BROOKLYN NY  
THE MAXIMALLY-FLAT DELAY FUNCTION OF LARGE ORDER,  
27 JAN 1964  
BY DEUTSCH S  
INSTRUMENT AF 19<628>03815  
PROJ/TASK 4610 07

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IONOSPHEREN INST REISACH WEST GERMANY  
FIXED AND VARIABLE FREQUENCY PULSE TRANSMISSION  
AT OBLIQUE IONOSPHERIC INCIDENCE, 5 DEC 1963  
BY BIBL K  
INSTRUMENT AF 61<052>00129  
PROJ/TASK 5631 03

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JOHNS HOPKINS U BALTIMORE MD  
VACUUM ULTRAVIOLET GRATINGS, 30 APR 1964  
BY ROTTEMA M  
STRONG J INSTRUMENT AF 19<604>06139  
PROJ/TASK 6687 01  
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AFCP 64 0400  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
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ALTITUDE VARIATION OF RAYLEIGH, AEROSOL, AND OZONE  
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MAY 1964  
BY ELTERMAN L DDC NUMBER 606112  
PROJ/TASK 7670 03

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WIND AND TEMPERATURE PROFILES NEAR THE GROUND IN STABLE  
STRATIFICATION - 30 APR 1964  
QUART J ROY METEOROL SOC V90 N384 PP136-146 APR 1964  
BY MCVEHIL G E  
INSTRUMENT AF 19<604>06641  
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CHANGE OF TERRAIN ROUGHNESS AND THE WIND PROFILE  
30 APR 1964  
QUART J ROY METEOROL SOC V90 N384 PP147-155 APR 1964  
BY PANOFKY M A  
TOWNSEND A A INSTRUMENT AF 19<604>06641  
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MASSACHUSETTS INST OF TECH CAMBRIDGE  
FAST NEUTRON SPECTROSCOPY AND DOSIMETRY OF THE MIT  
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BY RYDIN R A  
RASMUSSEN N C INSTRUMENT AF 19<604>07492  
BROWNELL G L PROJ/TASK 5620 02

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NUCLEAR CORP OF AMERICA PHOENIX ARIZ  
INVESTIGATION AND STUDY OF RARE-EARTH-DOPED SILICON,  
APR 1964  
BY BELTZ C R  
RUTHERFORD R R INSTRUMENT AF 19<628>02412  
CURTIS R L PROJ/TASK 4608 04

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HILCO CORP BLUE BELL PA  
A FUNDAMENTAL STUDY OF EPITAXY BY FLASH EVAPORATION,  
30 MAR 1964  
BY RICHARDS J L  
INSTRUMENT AF 19<628>02937  
PROJ/TASK 4608 04

AFCP 64 0408  
DECO ELECTRONICS INC CAMBRIDGE MASS  
INVESTIGATION OF IONOSPHERIC OBLIQUE SOUNDER DATA,  
2 APR 1964  
BY DAVIDSON D DDC NUMBER 602407  
GALLANT R M INSTRUMENT AF 19<628>03267  
PROJ/TASK 4603 09

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GREENBELT MD  
RESEARCH ON THE PRODUCTION AND PHYSICS OF SINGLE  
CRYSTAL EMITTERS, 20 APR 1964  
BY COOMES R A  
INSTRUMENT AF 19<604>08434  
PROJ/TASK 6694 09

AFCP 64 0411  
APPLIED LOGIC CORP PRINCETON N J  
AUTOMATED LOGIC FOR SEMI-AUTOMATED MATHEMATICS,  
30 MAR 1964  
BY GUARD J R  
INSTRUMENT AF 19<628>03250  
PROJ/TASK 5632 05

AFCP 64 0413  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS SPACE PHYSICS LAB  
L G HANSCOM FIELD MASS  
SMALL SCALE WIND STRUCTURE ABOVE 100 KILOMETERS,  
MAY 1964  
J GEOPHYS RES V69 N4 FEB 1964  
BY ZIMMERMAN S P  
PROJ/TASK 6690 03

AFCP 64 0414  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
UPPER ATMOSPHERE PHYSICS LAB L G HANSCOM FIELD MASS  
RESONANCE RADIATION OF AIO FROM TRIMETHYL ALUMINUM  
RELEASED INTO THE UPPER ATMOSPHERE - MAY 1964  
J GEOPHYS RES V69 N7 PP1451-1454 1 APR 1964  
BY ROSENBERG N W  
GOLOMB D  
ALLEN E F JR PROJ/TASK 7635 03

AFCP 64 0415  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS METEOROLOGY LAB  
L G HANSCOM FIELD MASS  
POSSIBILITY OF A 26- OR 27-MONTH PERIODICITY IN  
THE EQUATORIAL GEOMAGNETIC FIELD, MAY 1964  
NATURE V201 N4922 P909 FEB 1964  
BY SHAPIRO R  
WARD F  
PROJ/TASK 8604 04

AFCP 64 0416  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS SPACE PHYSICS LAB  
L G HANSCOM FIELD MASS  
PHOTO-INDUCED ELECTRON TRANSFER IN DYE-SULPHYDRYL PROTEIN  
COMPLEX - MAY 1964  
NATURE V201 N4925 PP1183-1185 21 MAR 1964  
BY FUJIMORI F  
PROJ/TASK 8659 03  
DDC NUMBER 446733

AFCP 64 0418  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
SOLID STATE SCIENCES LAB L G HANSCOM FIELD MASS  
IMPROVED CLOSED-SYSTEM EVAPORATION CRYSTALLIZER,  
MAY 1964  
REV SCI INSTR V34 N10 OCT 1963  
BY SAMPSON J L  
DIPIETRO M A  
PROJ/TASK 5621 01

AFCP 64 0419  
COLUMBIA U PALISADES NY  
SPHEROIDAL PERIODS OF THE EARTH OBSERVED AT EIGHT  
STATIONS AROUND THE WORLD, APR 1964  
BULL SEISMOLOGICAL SOC AM V54 N2 PP755-776 APR 1964  
BY ALSOP L E  
INSTRUMENT AF 19<604>07376  
PROJ/TASK 8652 03

AFCP 64 0420  
FRANKLIN INST PHILADELPHIA PA  
THE MAGNETIC PROPERTIES OF FCC SINGLE CRYSTAL COBALT  
FILMS, APR 1964  
BY DOYLE W D  
DDC NUMBER 603720  
INSTRUMENT AF 19<628>02415  
PROJ/TASK 5635 03



AFCL 64 0421  
IHILCO CORP PHILADELPHIA PA  
ADVANCED ANTENNA TECHNIQUES, MAY 1964  
BY PROCOPIO L W DDC NUMBER 602768  
KASHIMURA T K INSTRUMENT AF 19<628>02403  
CZORPITA S PROJ/TASK 4600 06

AFCL 64 0425  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS SPACE PHYSICS LAB  
L G HANSCOM FIELD MASS  
CRATER FREQUENCY AND THE INTERPRETATION OF LUNAR  
HISTORY, MAY 1964  
ICARUS V2 M5-6 PP466-480 DEC 63  
BY DODO R T JR  
SALISBURY J W  
SMALLEY V G PROJ/TASK 8602 05

AFCL 64 0429  
MARYLAND U COLLEGE PARK  
A RELATIONSHIP FOR PLASMA SHEATHS ABOUT LANGMUIR PROBES,  
JAN 1964  
BY BETTINGER R T DDC NUMBER 603008  
WALKER H INSTRUMENT AF 19<628>02792  
PROJ/TASK 8605 04

AFCL 64 0431  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
STUDY OF THE PHOTOCATALYZED DECOMPOSITION OF WATER AND  
OF THE MECHANISMS OF INTRAMOLECULAR AND INTERMOLECULAR  
ELECTRON TRANSFER IN ORGANIC COMPOUNDS - 14 MAY 1964  
BY HEIDT L J INSTRUMENT AF 19<604>05712  
PROJ/TASK 6694 01

AFCL 64 0432  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS DATA SCIENCES LAB  
L G HANSCOM FIELD MASS  
INTELLIGIBILITY OF EXCERPTS FROM FLUENT SPEECH AUDITORY  
VS. STRUCTURAL CONTEXT - MAY 1964  
J VERBAL LEARNING VERBAL BEHAVIOR V3 N1 FEB 64 3 PP79-84  
BY PICKETT J M  
POLLACK I PROJ/TASK 5628 02

AFCL 64 0434  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
OPTICAL PHYSICS LAB L G HANSCOM FIELD MASS  
A STUDY OF TRANSVERSE MODES OF RUBY LASERS USING BEAT  
FREQUENCY DETECTION AND FAST PHOTOGRAPHY, MAY 1964  
BY STICKLEY C M PROJ/TASK 4645 01

AFCL 64 0435  
AMERICAN SCIENCE AND ENGINEERING INC CAMBRIDGE MASS  
A RESEARCH PROGRAM TO INVESTIGATE THE CHARGED PARTICLE FLUX  
IN THE NEAR-EARTH MAGNETOSPHERE FROM A P-11 SUB-SATELLITE  
27 MAY 1964  
BY PAOLINI F R  
GIACCONI R INSTRUMENT AF 19<628>02392  
WATERS J R PROJ/TASK 8600 06  
QUINN T G JR

AFCL 64 0436  
HARVARD U CAMBRIDGE MASS  
RESEARCH ON THE PROPERTIES OF ANTENNAS IN A CONDUCTING  
MEDIA, 15 APR 1964  
BY IIZUKA K INSTRUMENT AF 19<604>07262  
PROJ/TASK 7661 05

AFCL 64 0438  
SASKATCHEWAN U SASKATOON CANADA  
SODIUM TWILIGHT AT CHRISTCHURCH, NEW ZEALAND  
J ATMOSPHERIC TERREST PHYS V26 PP67-76 1964  
BY HUNTER D M DDC NUMBER 443155  
JONES A V INSTRUMENT AF 19<628>02829  
ELLYETT C D PROJ/TASK 7661 02  
MCLAUCHLAN E C

AFCL 64 0439  
SASKATCHEWAN U SASKATOON CANADA  
THE TELLURIC EMISSION SPECTRUM IN THE RANGE 1 MICRON  
TO 3 MM  
MEM SOC ROY SCI LIEGE CINQUIEME SER V9  
BY JONES A V DDC NUMBER 443099  
INSTRUMENT AF 19<628>02829  
PROJ/TASK 7661 02

AFCL 64 0441  
D BROWN ASSOCIATES INC EAU GALIE  
INVESTIGATION OF THE FEASIBILITY OF SELF-CALIBRATION  
OF TRACKING SYSTEMS, 29 MAY 1964  
BY BROWN D C  
BUSH N INSTRUMENT AF 19<628>03286  
STOL J PROJ/TASK 5930 03

AFCL 64 0442  
MANCHESTER U ENGLAND  
OBSERVATIONS OF THE FREQUENCY DEPENDENCE OF POLARIZA-  
TION OF THE LIGHT OF THE MOON AND OF MARS, 13 JAN 1964  
BY CLARKE D INSTRUMENT AF 61<052>00378  
PROJ/TASK 8602 01

AFCL 64 0443  
PUERTO RICO U MAYAGUEZ  
IONOSPHERIC PROPAGATION STUDIES, 1 JUN 1964  
BY DUENO B INSTRUMENT AF 19<604>08342  
PROJ/TASK 4603 09

AFCL 64 0444  
FACULTE DE SCIENCE DE PARIS ORSAY FRANCE  
KINETIC STUDY OF ELECTRONS IN WEAKLY IONIZED GASES  
FOR ARGON OR GAS MIXTURE ARGON-HYDROGEN, ARGON-CO,  
SPRING 1964  
BY CONSTANTIN A  
GODART J INSTRUMENT AF 61<052>00727  
HAMM J PROJ/TASK 8647 02  
RIOUX R

AFCL 64 0446  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
TERRESTRIAL SCIENCES LAB L G HANSCOM FIELD MASS  
LONG LINE AZIMUTHS FROM OPTICAL OBSERVATIONS OF THE ANNA  
FLASHING SATELLITE - JUNE 1964  
BY MANCINI A DDC NUMBER 446734  
PROJ/TASK 7600 02

AFCL 64 0447  
NEW HAMPSHIRE U DURHAM  
DIGITAL COMPUTER DESIGN OF THE DIPOLE PARAMETRIC  
AMPLIFIER ANTENNA, 1 MAY 1964  
BY FROST A D INSTRUMENT AF 19<628>00307  
PROJ/TASK 4600 02

AFCL 64 0448  
OHIO STATE U RESEARCH FOUNDATION COLUMBUS  
A STUDY OF THE TEMPERATURE DEPENDANCE OF THE TOTAL  
ABSORPTANCE OF CO NEAR 4.7 MICRON AND 2.3 MICRON,  
CH FOUR NEAR 3.3 MICRON, MAY 1964  
BY VANDERWERF D DDC NUMBER 442926  
INSTRUMENT AF 19<604>06141  
PROJ/TASK 7670 03

AFCL 64 0450  
LEOPHYSICS CORP OF AMERICA BEDFORD MASS  
PRESSURE AND DENSITY SCALE HEIGHTS DEFINING ATMOSPHERIC  
MODELS, APR 1964  
BY MINZNER R A DDC NUMBER 602497  
INSTRUMENT AF 19<628>01633  
PROJ/TASK 7673 01

AFCL 64 0451  
PENNSYLVANIA STATE U UNIVERSITY PARK  
THE MEASUREMENT OF PHASE AND AMPLITUDE RADIO WAVE  
INTERACTION AT UNIVERSITY PARK, PENNSYLVANIA, FOR  
JANUARY-FEBRUARY-MARCH 1964, 1 MAY 1964  
BY FERRARO A J  
BY LEE H S INSTRUMENT AF 19<628>04014  
PROJ/TASK 8605 02

AFCL 64 0452  
STANFORD RESEARCH INST MENLO PARK CALIF  
A SURVEY AND ASSESSMENT OF PROGRESS IN SWITCHING  
THEORY AND LOGICAL DESIGN IN THE SOVIET UNION,  
MAY 1964  
BY KAUTZ W H DDC NUMBER 443860  
INSTRUMENT AF 19<628>02903  
PROJ/TASK 4641 01

AFCL 64 0454  
INTERNATIONAL BUSINESS MACHINES CORP YORKTOWN HEIGHTS N Y  
DESIGN MECHANIZATION OF A PROBLEM-ORIENTED SYMBOL  
PROCESSOR, 1 MAY 1964  
RY SCHAUER R F DDC NUMBER 603199  
NOTZ W DDC NUMBER 603202  
MULLERY A DDC NUMBER 603201  
INSTRUMENT AF 19<628>02991  
PROJ/TASK 4641 05

AFCL 64 0455  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
UPPER ATMOSPHERE PHYSICS LAB L G HANSCOM FIELD MASS  
IONOSPHERIC PERTURBATIONS, SOLAR FLARES, AND GEOMAGNETIC  
STORMS-CORRELATIONS OBSERVED BY OBLIQUE LONG-RANGE  
HIGH-FREQUENCY PROBING - JUNE 1964  
BY BAKER H R  
RIFILLY A F PROJ/TASK 4649 01

AFCL 64 0456  
MITHRAS INC CAMBRIDGE MASS  
MEASUREMENT OF THE SPIN-FLOPPING RELAXATION TIME IN  
CU CI 2 POINT 2 H 2 O, JAN 1964  
BY NAIMAN C S DDC NUMBER 604425  
LAWRENCE T R INSTRUMENT AF 19<628>02395  
PROJ/TASK 5621 04

AFCL 64 0457  
COPENHAGEN TECH U DENMARK  
RADIATION FIELDS ASSOCIATED WITH SHORT-WAVE ANTENNAS  
IN ARBITRARY LAND-SEA AREAS, APR 1964  
BY LARSEN T INSTRUMENT AF 61<052>00503  
PROJ/TASK 5635 02

AFCL 64 0460  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
MICROWAVE PHYSICS LAB L G HANSCOM FIELD MASS  
A GEOMETRIC STUDY OF COHERENCE PROPERTIES OF PARTIALLY  
POLARIZED ELECTROMAGNETIC RADIATION, JUN 1964  
BY BOLINDER F F PROJ/TASK 5635 01

AFCL 64 0-61  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
UPPER ATMOSPHERE PHYSICS LAB L G HANSCOM FIELD MASS  
GEOMETRY AND FIRST-ORDER ERROR STATISTICS FOR THREE AND  
FOUR-STATION HYPERBOLIC FIXES ON A SPHERICAL EARTH  
JUNE 1964  
BY LEWIS E A DDC NUMBER 605816  
PROJ/TASK 4662 05

AFCL 64 0462  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
UPPER ATMOSPHERE PHYSICS LAB L G HANSCOM FIELD MASS  
CALIBRATION OF A FLYABLE MASS SPECTROMETER FOR N AND  
O ATOM SENSITIVITY, JUN 1964  
BY NARCISI R S  
SCHIFF H I PROJ/TASK 6687  
MORGAN J F  
COHEN N A

AFCL 64 0463  
MONTANA STATE COLL BOZEMAN  
TOWARDS A THEORY OF THE RETICULAR FORMATION - APRIL 1964  
BY KILMER W L  
MCCULLOCH W S  
INSTRUMENT AF 19<628>03807  
PROJ/TASK 5632 02

AFCL 64 0464  
MITHRAS INC CAMBRIDGE MASS  
TABULATION OF FIRST ORDER MAGNETIC PHASE TRANSITIONS,  
OCT 1963  
BY NAIMAN C S  
GILMORE R  
INSTRUMENT AF 19<628>02395  
PROJ/TASK 5621 04

AFCL 64 0465  
HOWELL WALLACE E INC LEXINGTON MASS  
A STUDY OF MIDDLE CLOUD WAVE PATTERNS - 31 MAY 1964  
BY LOPEZ M F  
RONNING S N  
INSTRUMENT AF 19<628>00306  
PROJ/TASK 6698 02

AFCL 64 0467  
GENERAL ELECTRIC CO SCHENECTADY N Y  
SEMICONDUCTOR DEVICE CONCEPTS, 5 MAY 1964  
BY WOODBURY H H  
AVEN M  
HEUMANN F K  
HALL R N  
DDC NUMBER 603783  
INSTRUMENT AF 19<628>00329  
PROJ/TASK 4608 05

AFCL 64 0468  
GENERAL TELEPHONE AND ELECTRONICS LABS INC BAYSIDE N Y  
A STUDY OF ADSORPTION OF GASES ON SOLIDS IN THE HIGH  
VACUUM RANGE, 30 APR 1964  
BY FLORIO J V  
BAIRD D H  
DDC NUMBER 602489  
INSTRUMENT AF 19<628>00331  
PROJ/TASK 5634 05

AFCL 64 0469  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
AEROSPACE INSTRUMENTATION LAB L G HANSCOM FIELD MASS  
A PRELIMINARY EVALUATION OF THE CRICKETSONDE ROCKET  
SYSTEM, JUN 1964  
BY KONSTANTINS P  
PROJ/TASK 6682 05

AFCL 64 0470  
KIRUNA GEOPHYSICAL OBSERVATORY SWEDEN  
A SYSTEM FOR AUTOMATIC COLLECTION OF GEOMAGNETIC  
DATA IN DIGITAL FORM, 24 MAR 1964  
BY GUSTAFSSON G  
ELEMAN F  
HEIKKILA K F  
INSTRUMENT AF 61<052>00237  
PROJ/TASK 8601 02

AFCL 64 0471  
GABRIEL CO ROCKETPOWER INC MESA ARIZ  
JUDI-ROBIN BALLOON DART SOUNDING VEHICLE - MAY 1964  
BY WATSON C W  
INSTRUMENT AF 19<628>02805  
PROJ/TASK 6682 06  
PROJ/TASK 6670 03

AFCL 64 0472  
NATIONAL BUREAU OF STANDARDS BOULDER COLO  
THEORY OF A SLOTTED-SPHERE ANTENNA IMMERSED IN A  
COMPRESSIBLE PLASMA - PARTS I AND II - 8 MAY 1964  
RADIO SCI J RES NBS/USNC-URSI V68D N10 OCT 1964  
BY WAIT J R  
DDC NUMBER 446366  
INSTRUMENT AF 19-PRO-62-201  
PROJ/TASK 4600 04

AFCL 64 0473  
NATIONAL BUREAU OF STANDARDS BOULDER COLO  
ON RADIATION OF ELECTROMAGNETIC AND ELECTROACOUSTIC  
WAVES IN PLASMA, 8 JUN 1964  
BY WAIT J R  
DDC NUMBER 604435  
INSTRUMENT PRO-62-201  
PROJ/TASK 4600 04

AFCL 64 0474  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS DATA SCIENCES LAB  
L G HANSCOM FIELD MASS  
SOME EFFECTS OF SEMANTIC AND GRAMMATICAL CONTEXT ON THE  
PRODUCTION AND PERCEPTION OF SPEECH - JUNE 1964  
LANGUAGE SPEECH V6 PART 3 PP172-187 JUL-SEP 1963  
BY LIERERMAN P  
PROJ/TASK 5628 02

AFCL 64 0475  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
TERRESTRIAL SCIENCES LAB L G HANSCOM FIELD MASS  
LASER-SATELLITE REFLECTION PARAMETERS - JUNE 1964  
BY ILIFF R L  
PROJ/TASK 7600 06

AFCL 64 0476  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
SOLID STATE SCIENCES LAB L G HANSCOM FIELD MASS  
THE PREPARATION OF HIGH-PURITY BORON VIA THE LODIDE  
JUNE 1964  
TRANS MET SOC AIME V230 PP350-354 MAR 1964  
BY ARMINGTON A F  
DILLON G F  
MITCHELL R F  
PROJ/TASK 5620 01

AFCL 64 0477  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
SOLID STATE SCIENCES LAB L G HANSCOM FIELD MASS  
INFRARED ABSORPTION OF MAGNESIUM STANNIDE - JUNE 1964  
PHYS REV V133 N4A A800-A810 3 FEB 1964  
BY LIPSON H G  
KAHAN A  
PROJ/TASK 5621 04

AFCL 64 0478  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS DATA SCIENCES LAB  
L G HANSCOM FIELD MASS  
AREA PROPERTIES OF TELEVISION PICTURES - JUNE 1964  
BY NITSCHKAWA S  
MASSA R J  
MOTT-SMITH J C  
PROJ/TASK 4610 07

AFCL 64 0479  
BITTERLICH W INNSBRUCK AUSTRIA  
FIELD STRENGTH METER FOR VLF WAVES, 1 APR 1964  
BY BITTERLICH W  
INSTRUMENT AF 61<052>00490  
PROJ/TASK 4600 08

AFCL 64 0481  
CATHOLIC U OF AMERICA WASHINGTON D C  
EXPERIMENTAL STUDY OF THE ABSORPTION IN DISTILLED WATER,  
ARTIFICIAL SEA WATER, AND HEAVY WATER IN THE VISIBLE  
REGION OF THE SPECTRUM - 1 JUNE 1964  
J OPT SOC AM V53 N8 PP962-968 AUG 1963  
BY SULLIVAN C A  
INSTRUMENT AF 19<604>05558  
PROJ/TASK 7670 03

AFCL 64 0482  
ALMQVIST & WIKSELL GOTEBOG-UPPSALA STOCKHOLM SWEDEN  
SOME DIFFERENT TYPES OF WHISTLERS IN RELATION TO  
SIMULTANEOUS THUNDERSTORM ACTIVITY, 1963  
ARKIV GEOPHYSIK BAND 4 UR 14  
BY NORINDER H  
KNUDSEN F  
INSTRUMENT AF 61<052>00007  
PROJ/TASK 7663 05

AFCL 64 0483  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
AEROSPACE INSTRUMENTATION LAB L G HANSCOM FIELD MASS  
HORIZONTAL AND VERTICAL DISTRIBUTIONS OF ATMOSPHERIC  
DENSITY, UP TO 90 KM - JUNE 1964  
BY COLE A E  
KANTOR A J  
PROJ/TASK 8624 01

AFCL 64 0484  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
OPTICAL PHYSICS LAB L G HANSCOM FIELD MASS  
THE INFRARED TELLURIC ABSORPTION SPECTRUM INTRODUCTORY  
REPORT, JUN 1964  
MEM SOC ROY SCI LIEGE SER5 V9  
BY HOWARD J N  
GARING J S  
PROJ/TASK 7670 02

AFCL 64 0485  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS DATA SCIENCES LAB  
L G HANSCOM FIELD MASS  
ON THE OPTIMUM DESIGN OF MULTIPATH SIGNALS, JUN 1964  
BY RFRSHAD N J  
PROJ/TASK 5628 01

AFCL 64 0486  
WALES U COLL ABERYSTWYTH  
MOLECULAR PARAMETERS AND BOND STRUCTURE PART 2:  
CARBON-HYDROGEN BONDS IN CH<sub>4</sub>X AND CH<sub>4</sub>XY MOLECULES,  
9 APR 1964  
BY JONES R G  
LADD J A  
ORVILLE-THOMAS W J  
INSTRUMENT AF 61<052>00691  
PROJ/TASK 8603 03

AFCL 64 0487  
MILAN U ITALY  
MEASUREMENT OF THE COSMIC RAY NEUTRON FLUX AT 45  
DEGREE GEOMAGNETIC LATITUDE, 11 MAY 1964  
BY BOELLA G  
ANTONI G D  
DILWORTH C  
PANETTI M  
SCARSI L  
SHAPIRO D  
INSTRUMENT AF EOAR GRANT 63-106  
PROJ/TASK 8600 03

AFCL 64 0488  
UPPSALA U SWEDEN  
RELATIONS BETWEEN LIGHTNING DISCHARGES AND DIFFERENT  
TYPES OF MUSICAL ATMOSPHERICS  
BY NORINDER H  
INSTRUMENT AF 61<052>00171  
PROJ/TASK 5631 01

AFCL 64 0489  
CENTRE NATIONAL D-ETUDES DE LA RECHERCHE SCIENTIFIQUE  
PARIS FRANCE  
FAR INFRARED SPECTRA OF CRYSTALS AND SOLIDS IN A  
LARGE RANGE OF TEMPERATURES, 15 MAY 1964  
BY LECOMTE J  
HADONI A  
INSTRUMENT AF 61<052>00518  
PROJ/TASK 5634 03

AFCL 64 0490  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
UPPER ATMOSPHERE PHYSICS LAB L G HANSCOM FIELD MASS  
AN INTERPRETATION OF THE FAR-FIELD EFFECTS OF A ROCKET  
IN THE IONOSPHERE <U> - JUNE 1964  
BY CONLEY T D  
HIGGINS J F  
DDC NUMBER 353184  
PROJ/TASK 4649 01

AFCL 64 0492  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS DATA SCIENCES LAB  
L G HANSCOM FIELD MASS  
A RADON-NIKODYM THEOREM IN DIMENSION LATTICES - JUNE 1964  
TRANS AM MATH SOC V108 N1 PP66-87 JUL 1963  
BY HOLLAND S S JR  
PROJ/TASK 5632 02



AFCLR 64 0493  
WASHINGTON U SEATTLE  
LIQUID FILM HYGROMETRY - MAY 1964  
BY CHARLSON R J  
BUETTNER K J K  
INSTRUMENT AF 19<628>00303  
PROJ/TASK 6020 02

AFCLR 64 0497  
COLORADO U BOULDER  
EXCITATION OF CHROMOSPHERIC MG I - AUGUST 1964  
ASTROPHYS J V137 N2 PP601-605 15 FEB 1963  
BY ATHAY R G  
HOUSE L L  
DDC NUMBER 447628  
INSTRUMENT AF 19<604>06664  
PROJ/TASK 7649 02

AFCLR 64 0498  
COLORADO U BOULDER  
EXCITATION OF CHROMOSPHERIC HE I - AUGUST 1964  
ASTROPHYS J V137 N3 PP931-944 1 APR 1963  
BY ATHAY R G  
DDC NUMBER 448298  
INSTRUMENT AF 19<604>06664  
PROJ/TASK 7649 02

AFCLR 64 0499  
COLORADO U BOULDER  
DEPTH OF FORMATION OF MG I LINES IN THE SOLAR ATMOSPHERE  
AUGUST 1964  
ASTROPHYS J V138 N3 PP680-692 1 OCT 1963  
BY ATHAY R G  
DDC NUMBER 447738  
INSTRUMENT AF 19<604>06664  
PROJ/TASK 7649 02

AFCLR 64 0501  
COLORADO U BOULDER  
THERMALLY DRIVEN CIRCULATIONS - AUGUST 1964  
BEITR PHYSIK ATMOSPHERE 35 3/4 1962  
BY HAURWITZ B  
DDC NUMBER 447739  
INSTRUMENT AF 19<604>05488  
PROJ/TASK 8604 05

AFCLR 64 0501  
COLORADO U BOULDER  
THE EFFECT OF STRATOSPHERIC TRANSPORT PROCESSES ON THE  
OZONE DISTRIBUTION - AUGUST 1964 OZONE VARIATIONS AND  
THEIR RELATION TO STRATOSPHERIC WARMINGS - AUGUST 1964  
METEOROL ABHANDL PROC INTERN SYMP STRATOSPHERIC  
MESOSPHERIC CIRCULATION 20-31 AUG 1962  
BY LONDON J  
PRABHAKARA C  
DDC NUMBER 606141  
INSTRUMENT AF 19<604>05488  
PROJ/TASK 8604 05

AFCLR 64 0502  
COLORADO U BOULDER  
THE POSITION AND SIGN OF JUPITERS MAGNETIC MOMENT  
AUGUST 1964  
ASTROPHYS J V137 NY 15 MAY 1963  
BY WARWICK J W  
DDC NUMBER 448295  
INSTRUMENT AF 19<628>00224  
PROJ/TASK 5629 02

AFCLR 64 0503  
CALIFORNIA RESEARCH CORP LA HABRA CALIF  
ANALYSIS OF A PROGRAM FOR COMPUTING THEORETICAL  
SEISMOGRAMS FOR MULTILAYERED MEDIA, 14 APR 1964  
BY SQUIER D P  
INSTRUMENT AF 19<604>08344  
PROJ/TASK 8652 05

AFCLR 64 0505  
OSLO U NORWAY  
SOME STABILITY PROPERTIES OF A MATERIAL LAYER MODEL  
OF THE ATMOSPHERE, 1 FEB 1964  
BY BLUMEN W  
INSTRUMENT AF 61<052>00525  
PROJ/TASK 6020 04

AFCLR 64 0506  
OSLO U NORWAY  
A METHOD OF BALANCING INITIAL DATA FOR A MATERIAL-LAYER  
MODEL OF THE ATMOSPHERE, 9 MAR 1964  
BY ELIASSEN A  
GRAMMELTVEDT A  
INSTRUMENT AF 61<052>00525  
PROJ/TASK 6020 04

AFCLR 64 0507  
NORWEGIAN DEFENSE RESEARCH ESTABLISHMENT KJELLER NORWAY  
LONG RANGE PROPAGATION STUDIES, 8 MAY 1964  
BY FOLKESTAD K  
INSTRUMENT AF 61<052>00610  
PROJ/TASK 4603 09

AFCLR 64 0508  
WALES U COLL ABERYSTWYTH  
MOLECULAR PARAMETERS AND BOND STRUCTURES PART 3,  
CARBON-OXYGEN BONDS, 8 MAY 1964  
BY LADD J A  
ORVILLE-THOMAS W J  
COX R C  
INSTRUMENT AF 61<052>00691  
PROJ/TASK 8603 03

AFCLR 64 0509  
COPENHAGEN TECH U DENMARK  
NUMERICAL COMPUTATIONS BASED DIRECTLY ON THE COMPENSATION  
THEOREM OF THE SKY WAVE FIELD FROM A DIPOLE IN AN  
ARBITRARY FLAT MIXED LAND-SEA AREA, MAR 1964  
BY LARSEN T  
INSTRUMENT AF 61<052>00503  
PROJ/TASK 5635 02

AFCLR 64 0510  
JARKE MATHEMATICAL LABS INC CARLISLE MASS  
MADCAP, MAMMOTH DECIMAL ARITHMETIC PROGRAM FOR THE  
DDP-1 COMPUTER, JUN 1964  
BY MYRVAAGNEF E  
INSTRUMENT AF 19<628>03826  
PROJ/TASK 5628 01

AFCLR 64 0511  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
MICROWAVE PHYSICS LAB L G HANSCOM FIELD MASS  
PLASMA PRODUCED ANTENNA PATTERN DISTORTION - JUNE 1964  
BY JACAVANCO D J  
PROJ/TASK 4642 02

AFCLR 64 0513  
ROYAL INST OF TECH STOCKHOLM SWEDEN  
AVAILABLE AC POWER FROM AN ACTIVE REAL TWO-TERMINAL  
DEVICE, JUN 1963  
IEEE TRANS PROFESS TECH GROUP CIRCUIT THEORY V CT-10 N2  
JUN 1963  
BY LEINE P O  
INSTRUMENT AF EOAR 61-43  
PROJ/TASK 5632 03

AFCLR 64 0514  
ROYAL INST OF TECH STOCKHOLM SWEDEN  
BASIC STUDIES ON AMPLIFICATION AND GENERATION OF  
SIGNALS IN ELECTRONICAL CIRCUIT STOCKHOLM, 27 APR 1964  
BY LEINE P O  
INSTRUMENT AF EOAR 61-43  
PROJ/TASK 5632 03

AFCLR 64 0515  
GENERAL DYNAMICS CORP GENERAL ATOMICS DIV SAN DIEGO CALIF  
ANALYSIS OF IONIC AND NEUTRAL SPECIES IN THERMAL PLASMAS  
24 AUGUST 1964  
BY FINEMAN M A  
INSTRUMENT AF 19<628>03242  
PROJ/TASK 6694 09

AFCLR 64 0517  
BAYLOR U WACO TEX  
AN INVESTIGATION OF THE MECHANISM OF ELECTROLYTIC OXIDATION  
OF ORGANIC COMPOUNDS AND OF COMPETITIVE PROCESSES  
INVOLVING HYDROGEN AT THE SURFACE OF THE SOLID METAL  
ELECTRODES - JUNE 1964  
BY FRANKLIN T C  
LIANG C  
MATUSUDA F  
MCLELLAND D  
CHIU Y-C  
KAWAMATA M  
MC DANIEL A  
ITO H T  
INSTRUMENT AF 19<604>08414  
PROJ/TASK 6694 06

AFCLR 64 0519  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
UPPER ATMOSPHERE PHYSICS LAB L G HANSCOM FIELD MASS  
ION DISSOCIATION IN THE DRIFT TUBE OF A TIME-OF-FLIGHT  
MASS SPECTROMETER III. FLIGHT-TIME SHIFT EQUATIONS FOR  
SPURIOUS FRAGMENT PEAKS ARISING FROM CHARGE TRANSFER AND  
DISSOCIATION REACTIONS OCCURRING INSIDE THE POTENTIAL  
BARRIER - JUNE 1964  
BY HUNT W W JR  
DDC NUMBER 605811  
PROJ/TASK 7635 03

AFCLR 64 0520  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
TERRESTRIAL SCIENCES LAB L G HANSCOM FIELD MASS  
EVALUATION OF 1960 SEISMICITY - JUNE 1964  
BY FISHER R L  
BAXER R G  
GUIDROZ R R  
PROJ/TASK 8652 07

AFCLR 64 0521  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS METEOROLOGY LAB  
L G HANSCOM FIELD MASS  
BET, P32, AND S35 STRATOSPHERIC CONCENTRATIONS AND  
ARTIFICIAL PRODUCTION - JULY 1964  
J GEOPHYS RES V69 N8 PP1457-1467 15 APR 1964  
BY DREVINSKY P J  
WASSON J T  
COUBLE E C  
DIMOND N A  
PROJ/TASK 7690 01

AFCLR 64 0523  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS SPACE PHYSICS LAB  
L G HANSCOM FIELD MASS  
THE STATISTICS OF SATELLITE SCINTILLATIONS AT A SUBAURORAL  
LATITUDE - JULY 1964  
J GEOPHYS RES V69 N9 1 MAY 1964  
BY AARONS J  
MULLEN J  
BASU S  
PROJ/TASK 4643 02

AFCLR 64 0524  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS METEOROLOGY LAB  
L G HANSCOM FIELD MASS  
THE MATHEMATICAL EQUIVALENCE OF MULTI-LEVEL AND VERTICALLY  
INTEGRATED NUMERICAL FORECASTING MODELS - JULY 1964  
TELLUS V15-U4 NOV 1963  
BY BERKOFKY L  
PROJ/TASK 8628 03

AFCLR 64 0525  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
UPPER ATMOSPHERE PHYSICS LAB L G HANSCOM FIELD MASS  
LOW ENERGY CHARGE EXCHANGE AND ION-MOLECULE REACTIONS  
JULY 1964  
ANN GEOPHYS BOOK 20 PP75-87 JAN-MAR 1964  
BY PAULSON J F  
PROJ/TASK 7635 04

AFCLR 64 0526  
AVCO CORP WILMINGTON MASS  
EXTENSION OF THE METHOD OF NORMAL MODES TO WAVE PROPAGATION  
IN AN ALMOST-STRATIFIED MEDIUM - JUNE 1964  
BY PIERCE A D  
INSTRUMENT AF 19<628>03891  
PROJ/TASK 7637 02

AFCLR 64 0528  
ERANDEIS U WALTHAM MASS  
THE THERMAL AND ELECTRICAL CONDUCTIVITY OF COOLING  
STELLAR PLASMA EMITTING NEUTRINOS, 10 JUN 1964  
BY KANG I K DDC NUMBER 603868  
GOLDSTEIN J S INSTRUMENT AF 19<604>07283  
PROJ/TASK 8608 05

AFCLR 64 0529  
PENNSYLVANIA STATE U UNIVERSITY PARK  
METHODS FOR OBTAINING ELECTRON DENSITY PROFILES FROM  
CAPACITIVE IONOSPHERIC ROCKET PROBES, 15 MAY 1964  
BY CROUSE P F DDC NUMBER 603625  
INSTRUMENT AF 19<628>04050  
PROJ/TASK 8653 02

AFCLR 64 0530  
NATIONAL ELECTRONICS INSTITUTE SPAIN  
MEASUREMENTS OF THE 5 KC RADIO NOISE NEAR MADRID,  
15 MAY 1964  
BY SCHLAYER C F INSTRUMENT AF 61<052>00513  
PROJ/TASK 5631 08

AFCLR 64 0531  
LONDON U IMPERIAL COLL OF SCIENCE AND TECH ENGLAND  
RESEARCH ON CHARACTERISTICS AND EFFECTS OF SEVERE  
STORMS, MAY 1964  
BY LUDLAM F H  
ATLAS D INSTRUMENT AF 61<052>00254  
MACKLIN W C PROJ/TASK 8620 04  
BROWNING K A  
GREEN J S A  
HOOKINGS G  
MOSSOP S C  
HARNEY P J  
CARLSON T  
PETROCCHI P

AFCLR 64 0532  
CHALMERS INST OF TECH GOTHENBURG SWEDEN  
MICROSCOPIC TREATMENT OF THE INTERACTION BETWEEN A  
PLANE ELECTROMAGNETIC WAVE AND AN OSCILLATING  
MEDIUM, MAR 1964  
BY THOMASSON A R INSTRUMENT AF 61<052>00451  
PROJ/TASK 4603 02

AFCLR 64 0533  
CHALMERS INST OF TECH GOTHENBURG SWEDEN  
GENERATION OF LONGITUDINAL PLASMA WAVES BY NONLINEAR  
COUPLING OF TWO HIGH-POWER CIRCULARLY POLARIZED  
TRANSVERSE WAVES, 1 APR 1964  
BY WILHELMSSON K H B INSTRUMENT AF 61<052>00451  
PROJ/TASK 4603 02

AFCLR 64 0534  
CHALMERS INST OF TECH GOTHENBURG SWEDEN  
CERENKOV EFFECT IN A PRE-OSCILLATING MEDIUM, 1 APR 1964  
BY WILHELMSSON K H B  
THOMASSON A R INSTRUMENT AF 61<052>00451  
PROJ/TASK 4603 02

AFCLR 64 0535  
CHALMERS INST OF TECH GOTHENBURG SWEDEN  
THE MAGNETO-IONIC THEORY FOR MASS-ANISOTROPIC ELECTRONS,  
1 APR 1964  
BY WILHELMSSON K H B INSTRUMENT AF 61<052>00451  
PROJ/TASK 4603 02

AFCLR 64 0536  
BITTERLICH W INNSBRUCK AUSTRIA  
CURRENT DISTRIBUTION OF HEMISPHERICAL ELECTRODES IN A  
HOMOGENEOUS SEMISPHERE, 15 MAY 1964  
BY TINHOFFER G  
BITTERLICH W INSTRUMENT AF 61<052>00490  
PROJ/TASK 4600 08

AFCLR 64 0538  
CALIFORNIA INST OF TECH PASADENA  
LASER ELECTROMAGNETICS - 1 JULY 1964  
BY GEORGE N INSTRUMENT AF 19<604>08052  
PROJ/TASK 4600 06

AFCLR 64 0539  
UNITED AIRCRAFT CORP EAST HARTFORD CONN  
RESEARCH OF ASPECTS OF MASS TRANSPORT NEAR THE THREE-PHASE  
ZONE OF AN OXYGEN ELECTRODE - 30 JUNE 1964  
BY URBACH H R  
MCMAHON D G INSTRUMENT AF 19<628>03234  
PROJ/TASK 8659 04

AFCLR 64 0540  
ADVANCED METALS RESEARCH CORP BURLINGTON MASS  
EXTRA-TERRESTRIAL PARTICLES - 30 APRIL 1964  
BY PLANSKY M  
CARNEVALE R F INSTRUMENT AF 19<628>02761  
PROJ/TASK 7667 03

AFCLR 64 0541  
ANDREW ALFORD CONSULTING ENGINEERS BOSTON MASS  
EXPERIMENTAL STUDY OF THE BACK SCATTERING FROM CONDUCTING  
OBJECTS IN THE RANGE OF ONE QUARTER TO ONE WAVELENGTH IN  
SIZE - APRIL 1964  
BY FLOOD D P DDC NUMBER 606087  
FIELD J C INSTRUMENT AF 19<628>02456  
PROJ/TASK 4600 04

AFCLR 64 0545  
ROYAL INST OF TECH STOCKHOLM SWEDEN  
DISSOCIATION OF METHANE MOLECULE IONS FORMED IN CHARGE  
EXCHANGE COLLISIONS WITH POSITIVE IONS, ION-MOLECULE  
REACTIONS OF METHANE, 6 APR 1964  
BY VON KOCH H INSTRUMENT AF 60AR 63-68  
PROJ/TASK 7635 04

AFCLR 64 0546  
DURHAM U ENGLAND  
RESEARCH ON THERMAL CONVECTION IN ROTATING FLUIDS AND  
ON ROTATING BAROTROPIC FLUIDS, JUL 1962  
BY HIDE R  
BOWDEN M INSTRUMENT AF 61<052>00216  
EDEN H F PROJ/TASK 8604 03  
FOWLES W W  
IBBETSON A  
TITMAN C W

AFCLR 64 0547  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
MICROWAVE PHYSICS LAB L G HANSCOM FIELD MASS  
MEASUREMENT OF NOISE FIGURE OF AN X-BAND WAVEGUIDE MIXER  
WITH TUNNEL DIODE - JULY 1964  
BY BLAESER G H DDC NUMBER 605812  
PROJ/TASK 4600 09

AFCLR 64 0549  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
TERRESTRIAL SCIENCES LAB L G HANSCOM FIELD MASS  
SHEAR DEFORMATION OF UPPER MANTLE MINERAL ANALOGUES TESTS  
TO 55 KB AT 270C - JULY 1964  
BY RIECKER R E DDC NUMBER 606118  
SEIFERT K F PROJ/TASK 8652 11

AFCLR 64 0551  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS METEOROLOGY LAB  
L G HANSCOM FIELD MASS  
SOME NUMERICAL RESULTS OF A MODEL INVESTIGATION OF THE  
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PLANET SPACE SCI V12 PP219-225 1964  
BY BERKOFKY L  
SHAPIRO R PROJ/TASK 8628 03

AFCLR 64 0552  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
UPPER ATMOSPHERE PHYSICS LAB L G HANSCOM FIELD MASS  
ELECTRICAL PROCESSES IN THE NIGHTTIME EXOSPHERE, JUL 1964  
GEOPHYS RES V69 N9 MAY 1964  
BY SAGALYN R  
SMIDDY M PROJ/TASK 8617 01

AFCLR 64 0553  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS METEOROLOGY LAB  
L G HANSCOM FIELD MASS  
RADIOACTIVITY IN SPUTNIK 4 FRAGMENT - JULY 1964  
J GEOPHYS RES V69 N11 1JUN 1964  
BY WASSON J T PROJ/TASK 7690 03

AFCLR 64 0554  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
UPPER ATMOSPHERE PHYSICS LAB L G HANSCOM FIELD MASS  
FALLING SPHERE MEASUREMENTS OF ATMOSPHERIC DENSITY,  
TEMPERATURE, AND PRESSURE, UP TO 115 KM - JULY 1964  
BY CHAMPION K S W  
FAIRE A C PROJ/TASK 6690 01

AFCLR 64 0555  
TENNESSEE U KNOXVILLE  
INVESTIGATION OF THIN WIRE CIRCULAR LOOP ANTENNAS AND  
ELECTRONICALLY SCANNED CIRCULAR ARRAYS, 30 JUN 1964  
BY NEFF H P DDC NUMBER 603966  
HICKMAN C E INSTRUMENT AF 19<628>00288  
TILLMAN J D PROJ/TASK 4600 02

AFCLR 64 0558  
NEW HAMPSHIRE U DURHAM  
DESIGNING DC-DC CONVERTERS FOR HIGH EFFICIENCY AT LOW  
POWER - JUNE 1964  
BY HIGGINS J A  
TRAINOR J H INSTRUMENT AF 19<628>02352  
PROJ/TASK 8600 03

AFCLR 64 0560  
MINNESOTA U MINNEAPOLIS  
BASIC PHENOMENA IN THERMIONIC ENERGY CONVERTERS FOR PERIOD  
1 FEBRUARY 1961 TO 1 NOVEMBER 1963 - JUNE 1964  
BY OSKAM H J INSTRUMENT AF 19<604>08072  
PROJ/TASK 6694 09

AFCLR 64 0562  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
TERRESTRIAL SCIENCES LAB L G HANSCOM FIELD MASS  
GEODETIC POSITIONING FROM SIMULTANEOUS OPTICAL OBSERVATIONS  
OF THE ANNA I-B SATELLITE - JULY 1964  
BY SHELDON L L  
ECKHARDT D H PROJ/TASK 7600 06

AFCLR 64 0564  
CARDIFF U COLL GREAT BRITAIN  
RESEARCH ON RECOMBINATION AND FLUCTUATION THEORY IN  
SEMICONDUCTORS, 31 MAY 1964  
BY LANDSBERG P T  
EVANS D A INSTRUMENT AF 61<052>00664  
PROJ/TASK 4645 02

AFCLR 64 0565  
PHYSICAL METEOROLOGICAL OBSERVATORY DAVOS PLATZ  
SWITZERLAND  
INVESTIGATION ON THE INFLUENCE OF CLOUDS ON ULTRAVIOLET  
SKY RADIATION <AT 330 MU AND 370 MU>, MAR 1964  
BY BENER P INSTRUMENT AF 61<052>00618  
PROJ/TASK 7621 03

AFRL 64 0566  
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RESEARCH DIRECTED TOWARD A FEASIBILITY STUDY DEALING WITH  
THE INTEGRATION OF GRAVITY DATA - JUNE 1964 METHODS OF  
PHYSICAL GEODESY - JUNE 1964 A REVIEW ON CLOSE SATELLITE  
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ZONAL GEOPHYSICAL HARMONICS - JUNE 1964 ON THE  
ACCURACY OF SPHERICAL HARMONICS AND ORBITAL PREDICTIONS  
JUNE 1964  
BY MEISKANEN W A DDC NUMBER 605654  
MORITZ H INSTRUMENT AF 19<628>01628  
MUELLER I I PROJ/TASK 7600 02  
RAPP R H

AFRL 64 0567  
LUDWIG-MAXIMILIANS U MUECHEN GERMANY  
INVESTIGATION OF THE INFRARED EMISSION SPECTRUM OF  
THE ATMOSPHERE AND EARTH, 15 MAR 1964  
BY BOLLE H J INSTRUMENT AF 61<052>00418  
KUEERS G PROJ/TASK 8603 02  
MOLLER F  
QUENZEL H

AFRL 64 0568  
KIRUNA GEOPHYSICAL OBSERVATORY SWEDEN AND  
CASE INST OF TECH CLEVELAND OHIO  
A STUDY OF AURORAL ZONE IONOSPHERIC IRREGULARITIES  
NETWORK SYNTHESIS THROUGH HYBRID MATRICES - 18 AUGUST 1964  
MADE SIMULTANEOUSLY AT TROMSO, NORWAY AND KIRUNA,  
SWEDEN, 20 MAY 1964  
BY FRIMAGEN J  
DUFFIN R J INSTRUMENT AF 61<052>00678  
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LISZKA L  
HAZONY D  
MORRISON N  
PROJ/TASK 4643 02  
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AFRL 64 0569  
LIEGE U BELGIUM  
CELESTIAL SPECTRA AND ATMOSPHERIC EFFECTS MAINLY IN THE  
INFRARED, 31 MAY 1964  
BY NIGEOTTE H INSTRUMENT AF 61<052>00685  
PROJ/TASK 8603 02

AFRL 64 0570  
KIRUNA GEOPHYSICAL OBSERVATORY SWEDEN  
MORPHOLOGY OF THE VISIBLE AURORA, ITS RELATION TO MAGNETIC  
VARIATIONS AND COSMIC NOISE ABSORPTION, 21 MAY 1964  
BY GUSTAFSSON G INSTRUMENT AF 61<052>00288  
PROJ/TASK 8653 02

AFRL 64 0571  
KIRUNA GEOPHYSICAL OBSERVATORY SWEDEN  
SPECTROPHOTOMETRIC STUDIES OF AURORA, 5 JUN 1964  
BY GUSTAFSSON G INSTRUMENT AF 61<052>00288  
PROJ/TASK 8653 02

AFRL 64 0572  
BRANDEIS U WALTHAM MASS  
THEORETICAL STUDIES IN ASTROPHYSICS - 30 JUNE 1964  
BY GOLDSTEIN J S INSTRUMENT AF 19<604>07283  
PROJ/TASK 8608 05

AFRL 64 0573  
OHIO STATE U COLUMBUS  
ON THE ACCURACY OF THE COEFFICIENTS IN A SERIES OF  
SPHERICAL HARMONICS - APRIL 1964  
BY STRANG VAN HEES G L INSTRUMENT AF 19<628>02771  
PROJ/TASK 7600 02

AFRL 64 0574  
OHIO STATE U COLUMBUS  
ON FREE AIR ANOMALIES ESTIMATED FROM DIFFERENT MODELS  
MAY 1964  
BY GROTEN F INSTRUMENT AF 19<628>02771  
PROJ/TASK 7600 02

AFRL 64 0575  
OHIO STATE U COLUMBUS  
THE PREDICTION OF POINT AND MEAN GRAVITY ANOMALIES THROUGH  
THE USE OF A DIGITAL COMPUTER - JUNE 1964  
BY RAPP R H DDC NUMBER 605949  
INSTRUMENT AF 19<628>02771  
PROJ/TASK 7600 02

AFRL 64 0576  
OHIO STATE U COLUMBUS  
ON GRAVITY REDUCTIONS - JUNE 1964  
BY GROTEN E DDC NUMBER 605950  
INSTRUMENT AF 19<628>02771  
PROJ/TASK 7600 02

AFRL 64 0578  
ROYAL INST OF TECH STOCKHOLM SWEDEN  
DISSOCIATION OF ETHANE MOLECULE IONS FORMED IN CHARGE  
EXCHANGE COLLISIONS WITH POSITIVE IONS. ION-MOLECULE  
REACTIONS OF ETHANE, 30 APR 1964  
BY VON KOCH H INSTRUMENT AF EOAR 63-68  
PROJ/TASK 7635 04

AFRL 64 0581  
MOTOROLA INC PHOENIX ARIZ  
RESEARCH AND DEVELOPMENT FOR SEMICONDUCTOR SURFACE CONTROL  
AND STABILIZATION - 14 MAY 1964  
BY KANG K D DDC NUMBER 605566  
LEE F INSTRUMENT AF 19<628>03808  
COOPER H W PROJ/TASK 4608 05

AFRL 64 0583  
OHIO STATE U COLUMBUS  
EMISSION SPECTRUM OF NITRIC OXIDE IN THE NEAR INFRARED,  
MAY 1964  
BY HORN E F DDC NUMBER 604445  
INSTRUMENT AF 19<604>06150  
PROJ/TASK 7670 02

AFRL 64 0584  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS METEOROLOGY LAB  
L G HANSCOM FIELD MASS  
THE EVOLUTION OF TEMPERATURE AND VELOCITY PROFILES DURING  
BREAKDOWN OF A NOCTURNAL INVERSION AND A LOW-LEVEL JET  
JULY 1964  
J APPL METEOROLOGY V3 N1 PP70-82 FEB 1964  
BY IZUMI Y DDC NUMBER 447377  
PROJ/TASK 7655 01

AFRL 64 0587  
ELECTROMAGNETIC RESEARCH CORP COLLEGE PARK MD  
A STUDY OF METEOROLOGICAL PHENOMENA AS RELATED TO THE  
ERRORS IN RADIO INTERFEROMETER TRACKING SYSTEMS  
15 JUN 1964  
BY RINGWALT D L DDC NUMBER 603510  
INSTRUMENT AF 19<628>02818  
PROJ/TASK 5930 07

AFRL 64 0589  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
MICROWAVE PHYSICS LAB L G HANSCOM FIELD MASS  
A COMPUTER APPROACH TO LASER DESIGN - JULY 1964  
IEEE TRANS ELECTRON DEVICES PP219-228 MAY 1964  
BY PURNHAGEN T G DDC NUMBER 447344  
LUBELFELD J PROJ/TASK 5635 03

AFRL 64 0590  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
MICROWAVE PHYSICS LAB L G HANSCOM FIELD MASS  
APPARENT SKY TEMPERATURES AT MILLIMETER-WAVE FREQUENCIES  
JULY 1964  
BY WULFSBERG K N DDC NUMBER 605813  
PROJ/TASK 4600 09

AFRL 64 0591  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
UPPER ATMOSPHERE PHYSICS LAB L G HANSCOM FIELD MASS  
OBSERVATION OF 2, 1 CHARGE TRANSFER IN A TOF MASS  
SPECTROMETER JULY 1964  
BY HUNT W W JR DDC NUMBER 605814  
MCGEE K E PROJ/TASK 8605 07

AFRL 64 0596  
HARVARD U CAMBRIDGE MASS  
MEASUREMENTS OF RADIO NOISE AT 0.700 MC AND 2.200 MC  
FROM A HIGH-ALTITUDE ROCKET PROBE, JUL 1964  
BY HUGUENIN G R DDC NUMBER 604366  
LILLEY A F INSTRUMENT AF 19<628>03890  
MCDONOUGH W H PROJ/TASK 8605 05  
PAPAGIANNIS M D

AFRL 64 0597  
WESTINGHOUSE RESEARCH LABS PITTSBURGH PA  
RESONANCE MODES AT DEFECTS IN CRYSTALLINE QUARTZ - 17 JUNE  
1964  
BY FELDMAN D W DDC NUMBER 606051  
CASTLE J G JR INSTRUMENT AF 19<628>03838  
PROJ/TASK 4608 01

AFRL 64 0600  
DEUTSCHER WETTERDIENST OFFENBACH WEST GERMANY  
RESEARCH IN OBJECTIVE WEATHER FORECASTING, 1 JUL 1961-  
31 DEC 1963  
BY HINKELMANN K INSTRUMENT AF 61<052>00373  
RHEIN S PROJ/TASK 8628  
SCHANZ P  
REISER H  
EDELHANN W  
HASSELBERG K V

AFRL 64 0601  
NORWEGIAN INST OF COSMIC PHYSICS  
STUDIES OF LOCAL MORPHOLOGY, STRUCTURE AND DYNAMICS OF  
AURORA, 1 MAR 1963-31 MAY 1964  
BY HARANG L INSTRUMENT AF 61<052>00680  
OMHOLT A PROJ/TASK 8605 03  
HARANG O

AFRL 64 0604  
CENTRO DI STUDIO PER LA FISICA MICROONDE  
FLORENCE ITALY  
MANY ELEMENT LASERS, APR 1964  
BY PRATESI R INSTRUMENT AF 61<052>00720  
RONCHI L PROJ/TASK 5635 01  
TORALDO DI FRANCIA G

AFRL 64 0607  
UNITED ELECTRODYNAMICS INC ALEXANDRIA VA  
WEATHER-SEISMIC-NOISE CORRELATION STUDY, 31 JUL 1964  
BY BRADFORD J C DDC NUMBER 444069  
SHUMWAY R H INSTRUMENT AF 19<628>00230  
GRIFFIN J N PROJ/TASK 8652 04

AFRL 64 0608  
CALIFORNIA RESEARCH CORP LA HABRA CALIF  
THE REFRACTED ARRIVAL FROM A LAYER - 15 JUNE 1964  
BY SPENCER T W INSTRUMENT AF 19<604>08344  
PROJ/TASK 8652 05

AFRL 64 0609  
HARVARD U FORT DAVIS TEXAS  
PLANETARY EVIDENCE FOR SOLAR CORPUSCULAR EMISSION - JULY 1964  
PLANETARY SPACE SCI V12 PP435-449 1964  
BY MAXWELL A INSTRUMENT AF 19<628>02370  
DEFOUW R J PROJ/TASK 7649 06  
CUMMINGS P



AFCL 64 0611  
 PENNSYLVANIA STATE U UNIVERSITY PARK  
 TECHNIQUES FOR THE DETERMINATION OF REFLECTION COEFFICIENT  
 AND VIRTUAL HEIGHT OF LOW FREQUENCY RADIO WAVES  
 20 JULY 1964  
 BY TOU C P  
 DDC NUMBER 447109  
 INSTRUMENT AF 19<628>04014  
 PROJ/TASK 8605 02

AFCL 64 0612  
 COLORADO U BOULDER  
 DYNAMICS OF THE UPPER ATMOSPHERE - 31 JULY 1964  
 BY HAURWITZ B  
 LONDON J  
 DDC NUMBER 605916  
 INSTRUMENT AF 19<604>05488  
 PROJ/TASK 8604 05

AFCL 64 0614  
 ST LOUIS U MO  
 SOME EFFECTS OF A LAYERED SYSTEM ON DILATIONAL WAVES  
 31 JULY 1964  
 BY HANNON W J  
 INSTRUMENT AF 19<604>07399  
 PROJ/TASK 8652 01

AFCL 64 0615  
 OSLO U NORWAY  
 TRUE, ORDINARY AND EFFECTIVE THERMAL CONDUCTIVITY TENSORS  
 FOR A LORENTZ-TYPE HYDROGEN GAS, 1964  
 ASTROPHYSICA NORVEGICA V8 N3  
 BY WYLLIER A A  
 INSTRUMENT AF 61<052>00186  
 PROJ/TASK 7649 04

AFCL 64 0616  
 OSLO U NORWAY  
 COMPLETE COLLISIONAL EFFECTS IN THE THERMAL CONDUCTIVITY  
 TENSORS FOR A FULLY IONIZED HYDROGEN GAS, 1964  
 ASTROPHYSICA NORVEGICA V8 N4  
 BY WYLLIER A A  
 INSTRUMENT AF 61<052>00186  
 PROJ/TASK 7649 04

AFCL 64 0617  
 OSLO U NORWAY  
 MASS LOSSES THROUGH EVAPORATION FROM A COMPLETELY IONIZED  
 ATMOSPHERE WITH APPLICATIONS TO THE SOLAR CORONA, 1964  
 ASTROPHYSICA NORVEGICA V8 N5  
 BY JENSEN F  
 INSTRUMENT AF 61<052>00186  
 PROJ/TASK 7649 04

AFCL 64 0618  
 OSLO U NORWAY  
 SECULAR VARIATIONS OF INTERMITTENT AND REVIVAL SUNSPOT  
 GROUPS, 1964  
 ASTROPHYSICA NORVEGICA V8 N6  
 BY RINGNES T S  
 INSTRUMENT AF 61<052>00186  
 PROJ/TASK 7649 04

AFCL 64 0619  
 OSLO U NORWAY  
 THE EVERSHED EFFECT AT THE OUTER EDGE OF SUNSPOT PENUMBRAS,  
 1964  
 ANN ASTROPHYS V26 N4 JUL-AUG 1963  
 BY BREKKE K  
 MALTRY P  
 INSTRUMENT AF 61<052>00186  
 PROJ/TASK 7649 04

AFCL 64 0620  
 OSLO U NORWAY  
 SECULAR VARIATIONS OF SUNSPOTS WITH LIFETIMES FROM TWO  
 TO EIGHT DAYS, 1964  
 ASTROPHYSICA NORVEGICA V8 N7  
 BY RINGNES T S  
 INSTRUMENT AF 61<052>00186  
 PROJ/TASK 7649 04

AFCL 64 0621  
 MASSACHUSETTS INST OF TECH CAMBRIDGE  
 MEASUREMENT OF DROP SIZE DISTRIBUTION AND LIQUID WATER  
 CONTENT IN NATURAL CLOUDS - 15 FEBRUARY 1964  
 BY KELLY D P  
 INSTRUMENT AF 19<628>00259  
 PROJ/TASK 8620 05

AFCL 64 0622  
 SYRACUSE U RESEARCH INST N Y  
 THE USE OF FOAMED PROPELLANTS FOR COMPACTION AND  
 STABILIZATION OF VARIOUS TYPES OF TERRAIN - JULY 1964  
 BY GOODMAN L J  
 GROVE C S JR  
 AIDUN A  
 INSTRUMENT AF 19<628>00492  
 PROJ/TASK 7628 02

AFCL 64 0624  
 OSLO U NORWAY  
 INTERFEROMETRIC MEASUREMENTS OF THE 5200/02 A <N1>-  
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 PLANETARY SPACE SCI V9 PP811-813 1963  
 BY LARSEN S H H  
 INSTRUMENT AF 61<052>00680  
 PROJ/TASK 8605 03

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 OSLO U NORWAY  
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 BY OMHOLT A  
 INSTRUMENT AF 61<052>00680  
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 PLANETARY SPACE SCI V11 PP1229-1231 1963  
 BY JOHANSEN O E  
 OMHOLT A  
 INSTRUMENT AF 61<052>00680  
 PROJ/TASK 8605 03

AFCL 64 0627  
 OSLO U NORWAY  
 VLF-EMISSIONS OBSERVED NEAR THE AURORAL ZONE-(PART I)  
 OCCURRENCE OF EMISSIONS DURING DISTURBANCES, 1964  
 BY HARANG L  
 LARSEN R  
 INSTRUMENT AF 61<052>00680  
 PROJ/TASK 8605 03

AFCL 64 0628  
 OSLO U NORWAY  
 VLF-EMISSIONS OBSERVED NEAR THE AURORAL ZONE-(PART II)  
 THE PHYSICAL PROPERTIES OF THE EMISSIONS, 1964  
 BY HARANG L  
 HAUGE K N  
 INSTRUMENT AF 61<052>00680  
 PROJ/TASK 8605 03

AFCL 64 0629  
 WEIZMAN INST OF SCIENCE REMOVOTH ISRAEL  
 RESEARCH ON MEASUREMENT OF PRESSURE INDUCED SHIFTS OF  
 ABSORPTION LINES IN THE INFRARED SPECTRUM, MAY 1964  
 BY JAFFE J H  
 INSTRUMENT AF 61<052>00388  
 PROJ/TASK 8603 03

AFCL 64 0630  
 AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
 SOLID STATE SCIENCES LAB L G HANSCOM FIELD MASS  
 DISLOCATION STRUCTURES IN SINGLE CRYSTAL AL2O3 - AUGUST 64  
 J AM CERAM SOC V47 N2 FEB 1964  
 BY STEPHENS D L  
 ALFORD W J  
 DDC NUMBER 447345  
 PROJ/TASK 5621 01

AFCL 64 0631  
 AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS METEOROLOGY LAB  
 L G HANSCOM FIELD MASS  
 RADAR REFLECTIVITY OF STORMS CONTAINING SPONGY HAIL  
 AUGUST 1964  
 J GEOPHYS RES V69 N10 PP1955-1961 15 MAY 1964  
 BY ATLAS D  
 HARDY K R  
 JOSS J  
 DDC NUMBER 447316  
 PROJ/TASK 6672 03

AFCL 64 0632  
 AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS METEOROLOGY LAB  
 L G HANSCOM FIELD MASS  
 VISUAL OBSERVATIONS BENEATH A DEVELOPING TORNADO  
 AUGUST 1964  
 MONTHLY WEATHER REV V92 N6 PP326-328 JUN 1964  
 BY DONALDSON R J JR  
 LAMKIN W F  
 DDC NUMBER 447315  
 PROJ/TASK 6672 03

AFCL 64 0633  
 AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
 TERRESTRIAL SCIENCES LAB L G HANSCOM FIELD MASS  
 NEW SHEAR APPARATUS FOR TEMPERATURES OF 1000°C AND PRESSURE  
 OF 50 KB - NOVEMBER 1963  
 BY RIECKER R E  
 SEIFERT K E  
 DDC NUMBER 447727  
 PROJ/TASK 8652 11

AFCL 64 0634  
 AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
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 FROM TRANSMISSION DATA - AUGUST 1964  
 NUCL INSTR METHODS 24 PP131-132 1963  
 BY LOWE L F  
 BURKE E A  
 DDC NUMBER 447728  
 PROJ/TASK 5620 02

AFCL 64 0635  
 AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
 TERRESTRIAL SCIENCES LAB L G HANSCOM FIELD MASS  
 A PROTOTYPE LUNAR TRANSPONDER - AUGUST 1964  
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 BY HUNT M S  
 DDC NUMBER 447726  
 PROJ/TASK 8654 03

AFCL 64 0639  
 AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
 MICROWAVE PHYSICS LAB L G HANSCOM FIELD MASS  
 AUTOMATIC PLOTTING OF SPIN-WAVE INSTABILITY THRESHOLD DATA  
 AUGUST 1964  
 REV SCI INSTR V35 N5 PP558-561 MAY 1964  
 BY PURNHAGEN T G  
 DDC NUMBER 447729  
 PROJ/TASK 4600 03

AFCL 64 0640  
 UTAH STATE U LOGAN  
 RECOGNIZING PATTERNS IN PHOTOGRAPHS - 1 MAY 1964  
 BY RUSHFORTH C K  
 INSTRUMENT AF 19<628>03825  
 PROJ/TASK 8663

AFCL 64 0646  
 HAMBURGER-STERNWARTZ HAMBURG WEST GERMANY  
 STRUCTURE AND DEVELOPMENT OF COMETARY TAIL, 31 MAR 1964  
 BY WURN K  
 INSTRUMENT AF 61<052>00583  
 PROJ/TASK 8647 01

AFCL 64 0647  
 WEIZMAN INST OF SCIENCE REMOVOTH ISRAEL  
 PROPAGATION OF AN SH-TORQUE PULSE IN A SPHERE, 10 JUL 1964  
 BY ALTERMAN Z  
 KORNFIELD P  
 INSTRUMENT AF 61<052>00509  
 PROJ/TASK 8652 06

AFCL 64 0648  
 NEW HAMPSHIRE U DURHAM  
 PARAMETRIC AMPLIFIER ANTENNA STRUCTURES - 1 SEPTEMBER 1964  
 BY FROST A D  
 INSTRUMENT AF 19<628>00307  
 PROJ/TASK 4600 02

AFCRL 64 0649  
 RADIO CORP OF AMERICA RCA LABS PRINCETON N.J.  
 INTEGRATED LOGIC NETS - 31 JULY 1964  
 BY RAPP A K  
 SILVER R S  
 INSTRUMENT AF 19<604>08836  
 PROJ/TASK 4641 04

AFCRL 64 0651  
 PENNSYLVANIA STATE U UNIVERSITY PARK  
 THE VIBRATIONAL SPECTRUM, STRUCTURE, AND POTENTIAL  
 CONSTANTS OF NITRIC ACID - 31 JULY 1964  
 BY HISATSUNE I C  
 INSTRUMENT AF 19<604>07987  
 PROJ/TASK 8603 03

AFCRL 64 0657  
 LOWELL TECHNOLOGICAL INST RESEARCH FOUNDATION MASS  
 INSTALLATION OF FACILITIES TO BE USED IN CONJUNCTION WITH  
 A SHOCK TUBE - APRIL 1964  
 BY ROGERS K L  
 INSTRUMENT AF 19<604>08481  
 PROJ/TASK 8635 03

AFCRL 64 0660  
 AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
 AEROSPACE INSTRUMENTATION LAB L G HANSCOM FIELD MASS  
 TROPOPAUSE DEFINITION AND HOURLY FLUCTUATIONS - AUGUST 1964  
 BY KANTOR A J  
 DDC NUMBER 605838  
 PROJ/TASK 8624 01

AFCRL 64 0661  
 AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS DATA SCIENCES LAB  
 L G HANSCOM FIELD MASS  
 LOGICAL TECHNIQUES FOR GLOTTAL SOURCE MEASUREMENTS  
 AUGUST 1964  
 BY RAMSEY J L  
 DDC NUMBER 606119  
 PROJ/TASK 5628 02

AFCRL 64 0668  
 MICHIGAN U ANN ARBOR MICH  
 INFRARED STUDIES STARK EFFECTS IN HCN, CH<sub>3</sub>F, CH<sub>3</sub>I, NH<sub>3</sub> AND  
 H<sub>2</sub>O HINDERED ROTATION IN H<sub>2</sub>O<sub>2</sub>, INFRARED ABSORPTION OF  
 MATRIX ISOLATED NH<sub>3</sub> - AUGUST 1964  
 BY HUNT R H  
 MAKER P D  
 MEREDITH R E  
 PETERS C W  
 DDC NUMBER 605559  
 INSTRUMENT AF 19<604>06125  
 PROJ/TASK 8603 01

AFCRL 64 0669  
 OHIO STATE U COLUMBUS  
 ELECTRON IMPACT STUDIES OF MOLECULAR GASES - JULY 1964  
 BY LASSETTRE E N  
 DDC NUMBER 445853  
 INSTRUMENT AF 19<604>04541  
 PROJ/TASK 7635 03

AFCIL 64 0673  
 I.P. ASSOC PALO ALTO CALIF  
 INVESTIGATION OF HOT ELECTRON EMITTER - JUNE 1964  
 BY ATALLA M M  
 INSTRUMENT AF 19<628>01637  
 PROJ/TASK 4608 04

AFCRL 64 0696  
 PAYTHEON CO WAYLAND MASS  
 A NEW TECHNIQUE FOR SIMULTANEOUS RADAR OBSERVATION OF  
 MULTIPLE TARGETS WITHIN A BROAD SURVEILLANCE REGION  
 31 DECEMBER 1963  
 BY DISTLER R C  
 FELDMAN F A  
 INSTRUMENT AF 19<628>00361  
 PROJ/TASK 4600 06

AFCRL 64 0702  
 GENERAL ELECTRIC CO SCHENECTADY N Y  
 SEMICONDUCTOR DEVICE CONCEPTS - AUGUST 1964  
 BY WOODBURY H M  
 AVEN M  
 KENNICOTT P R  
 HALL R N  
 INSTRUMENT AF 19<628>00329  
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NORTH CAROLINA U CHAPEL HILL  
A CONSTANT CURRENT MICROCOULOMETRIC TECHNIQUE FOR DROPPING  
MERCURY ELECTRODES, THE DETERMINATION OF THE NUMBER OF  
ELECTRONS INVOLVED IN POLAROGRAPHIC REDUCTIONS  
J ELECTROANAL CHEM V3 PP98/111 1962  
BY REILLEY C N  
MARK H B JR  
SMITH E M  
INSTRUMENT AF 49<638>00333  
PROJ/TASK 9763

AFOSR 0789  
NORTH CAROLINA U CHAPEL HILL  
A SENSITIVE POLAROGRAPHIC TECHNIQUE, MAY 1961  
J ELECTROANAL CHEM V3 PP54/63 1962  
BY REILLEY C N  
MARK H B JR  
INSTRUMENT AF 49<638>00333  
PROJ/TASK 9763

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HARVARD U CAMBRIDGE MASS  
SERIES EXPANSIONS IN TERMS OF THE TEMPERATURE FUNCTIONS OF  
PORITSKY AND POWELL  
QUART APPL MATH V20 N1 PP41/47 APR 1962  
BY WIDDER D V  
INSTRUMENT AF 49<638>00574  
PROJ/TASK 9749 02

AFOSR 1122  
HARVARD U CAMBRIDGE MASS  
THE INVERSION OF A TRANSFORM RELATED TO THE LAPLACE  
TRANSFORM AND TO HEAT CONDUCTION  
J AUSTRAL MATH SOC V4 PT1 PP1/14 1964  
BY WIDDER D V  
INSTRUMENT AF 49<638>00574  
PROJ/TASK 9749 02

AFOSR 1135  
BRANDEIS U WALTHAM MASS  
ENZYMES OF GLYCOLYSIS  
MOD METHODS PLANT ANALYSIS V7 PP519/545 1964  
BY GIBBS M  
TURNER J F  
DDC NUMBER 442587  
INSTRUMENT AF 49<638>00798  
PROJ/TASK 9777 01

AFOSR 1148  
COLORADO U BOULDER  
BIREFRINGENCE IN A STRAINED VISCOELASTIC FLUID UNDER STEADY  
STATE ROTARY CONDITIONS II  
J POLYMER SCI V57 PP251/262 1962  
BY GILL S J  
DINTZIS F R  
INSTRUMENT AF 49<638>00310  
PROJ/TASK 9760

AFOSR 1320  
KENTUCKY U LEXINGTON  
PREPARATION OF 2, 1, 3/BENZOTHIADIAZOLES USING  
DIMETHYLFORMAMIDE SULFUR DIOXIDE REAGENT  
J ORG CHEM V27 P676 1962  
BY SMITH W T  
DDC NUMBER 445073  
INSTRUMENT AF 49<638>00049  
PROJ/TASK 9760

AFOSR 1322  
NORTH CAROLINA U CHAPEL HILL  
CURRENT/SCAN POLAROGRAPHY, STUDY OF A SYSTEM WHICH EXHIBITS  
A POLAROGRAPHIC MAXIMUM  
J ELECTROANAL CHEM V3 PP353/362 1962  
BY REILLEY C N  
INSTRUMENT AF 49<638>00333  
PROJ/TASK 9763

AFOSR 1549  
NORTH CAROLINA U CHAPEL HILL  
KINETIC ANALYSIS OF MIXTURES BY THE METHOD OF PROPORTIONAL  
EQUATIONS  
ANAL CHEM V34 PP600/606 MAY 1962  
BY REILLEY C N  
INSTRUMENT AF 49<638>00333  
PROJ/TASK 9763

AFOSR 2062  
BROOKLYN POLYTECHNIC INST NEW YORK NY  
PEROXIDE DECOMPOSITION AND CAGE EFFECT  
J PHYS CHEM V66 PP1591/1595 SEP 1962  
BY BRAUN W  
RAJBENBACH L  
EIRICH F R  
INSTRUMENT AF 49<638>00331  
PROJ/TASK 9761

AFOSR 2158  
WASHINGTON U SEATTLE  
EFFECT OF CENTRIFUGAL DISTORTION ON THE SHAPE OF THE  
HYDROGEN SULFIDE FUNDAMENTAL INFRARED BANDS  
J CHEM PHYS V37 N2 PP251/259 JUL 1962  
BY EMERSON M T  
EGGERS D F JR  
DDC NUMBER 446158  
INSTRUMENT AF 49<638>00797  
PROJ/TASK 9710 03

AFOSR 2615  
RUTGERS STATE U NEW BRUNSWICK N J  
COOPERATIVE STORAGE WAREHOUSES, FINAL REPORT, MAY 1962  
BY HARRAR H J  
INSTRUMENT AF 49<638>00849  
PROJ/TASK 9769

AFOSR 2698  
HEBREW U JERUSALEM ISRAEL  
COMMON SECANTS FOR FAMILIES OF POLYHEDRA  
ARCH MATH V25 N1 PP76/80 1964  
BY GRUNBAUM B  
INSTRUMENT AF 61<052>00187  
PROJ/TASK 9749 02

AFOSR 2699  
HEBREW U JERUSALEM ISRAEL  
ON A PAPER OF A. FELDZAMEN  
ISRAEL J MATH V1 N3 PP133/138 SEPT 1963  
BY FOGUEL S R  
INSTRUMENT AF 61<052>00187  
PROJ/TASK 9749 02

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IOWA STATE U OF SCIENC AND TECH PHYSICS DEPT AMES IOWA  
HEAT CAPACITY LAG IN HEAVY GASES, FINAL REPORT, JUN 1962  
BY LEGVOLD S  
OLSON J R  
INSTRUMENT AF/AFOSR /0087/61  
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SOME PERSONALITY AND BEHAVIORAL FACTORS RELATED TO BIRTH  
ORDER  
J APPL PSYCHOL V47 N5 PP300/303 1963  
BY SMITH E E  
GOODCHILD S J D  
DDC NUMBER 445113  
INSTRUMENT AF 49<638>01000  
PROJ/TASK 9779 01

AFOSR 3150  
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DDC NUMBER 444260  
INSTRUMENT AF 49<638>00382  
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BY ENGELBART D C  
INSTRUMENT AF 49<638>01024  
PROJ/TASK 9769 01

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RICE U HOUSTON TEX  
HOLOMORPHIC FUNCTIONS, OF ARBITRARILY SLOW GROWTH, WITHOUT  
RADIAL LIMITS  
MICHIGAN MATH J V9 PP21/24 1962  
BY MACLANE G R  
INSTRUMENT AF 49<638>00205  
PROJ/TASK 9749 02

AFOSR 3327  
CONNECTICUT U STORRS  
ON THE APPROXIMATION OF LP FUNCTIONS BY TRIGONOMETRIC  
POLYNOMIALS  
FUND MATH V53 PP121/134 1964  
BY GOSSELIN R P  
DDC NUMBER 446536  
INSTRUMENT AF 49<638>00608  
PROJ/TASK 9749 02

AFOSR 3342  
CARNEGIE INST OF TECH PITTSBURGH PA  
BOUNDS FOR THE SOLUTIONS OF A CLASS OF NONLINEAR PARTIAL  
DIFFERENTIAL EQUATIONS  
PROC AM MATH SOC V14 N5 PP829/836 OCT 1963  
BY NEHARI Z  
DDC NUMBER 447673  
INSTRUMENT AF/AFOSR /0414/62  
PROJ/TASK 9749 02

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SOLUTIONS  
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BY FISHMAN E  
INSTRUMENT AF 49<638>00003  
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RY OGG R A  
SKOOG  
DDC NUMBER 603735  
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THE HE3HE3 PLUS HE46 RATIO IN PRIMARY COSMIC RADIATION  
J GEOPHYS RES V67 PP1289/1293 APR 1962  
BY APPA RAO M V K  
INSTRUMENT AF 49<638>00303  
PROJ/TASK 9751 04

AFOSR 4477  
NORTH CAROLINA U CHAPEL HILL  
DISLOCATION IMPURITY INTERACTIONS AND STRAIN AGING IN AGC1  
J APPL PHYS V34 N7 PP1953/1957 JUL 63  
BY KABLER M N  
MILLER M G  
SLIFKIN L M  
INSTRUMENT AF 49<638>00865  
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PROC IEEE V51 N10 PP1306/1316 OCT 1963  
BY SCHILLING D L  
INSTRUMENT AF/AFOSR /0295/62  
PROJ/TASK 4751

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HEBREW U JERUSALEM ISRAEL  
A MEASURE OF ASYMMETRY FOR PLANE CONVEX SETS  
J LONDON MATH SOC V39 PP95/102 1964  
BY GRUNBAUM B  
INSTRUMENT AF 61<052>00187  
PROJ/TASK 9749 02

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PRINCETON U N J  
RESEARCH ON SOLID PROPELLANT COMBUSTION INSTABILITY, FINAL  
REPORT, 30 APR 1963  
BY WAESCHE R H W  
WENOGRAD J  
SUMMERFIELD M  
INSTRUMENT AF/AFOSR /0460/62  
PROJ/TASK 3814

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Z ANGEW MATH MECH V44 N3 PP123/128 1964  
BY HARTMAN P  
DDC NUMBER 446901  
INSTRUMENT AF/AFOSR /0045/62  
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CALIFORNIA INST OF TECH ELECTRICAL ENG DEPT PASADENA CALIF  
ON THE DOPPLER EFFECT IN A MEDIUM  
SUPPLEMENTARY TECHNICAL REPORT NO 29 DEC 1963  
BY LEE K S H  
INSTRUMENT AF/AFOSR /0070/63  
PROJ/TASK 9768 01

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ARMY RESEARCH OFFICE DURHAM N C  
EFFECTS OF ELECTRON / SURFACE INTERACTION IN IONIZATION  
GAUGES  
TRANS NAT VACUUM SYMP 10TH BOSTON MASS 16/18 OCT 1963  
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BY SCHUEMANN W C  
DESEGOVIA J L  
ALPERT D  
INSTRUMENT DA /36/039/AMC/02208  
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A DIGITAL COMPUTER PROGRAM FOR CALCULATING NONEQUILIBRIUM  
EXPANSION FLOWS OF DISSOCIATED OXYGEN AND IONIZED ARGON  
AROUND A CORNER  
BY GALIPEAU J  
TAKANO A  
INSTRUMENT AF/AFOSR /0365/63  
PROJ/TASK 9783 01

AFOSR 64 0803  
CALIFORNIA INST OF TECH PASADENA  
MICROWAVE INTERACTION WITH BOUNDED GYROELECTRIC PLASMAS  
BY NAGELBERG E R  
DDC NUMBER 437672  
INSTRUMENT AF 49<638>01266  
PROJ/TASK 9768 01

AFOSR 64 0804  
CALIFORNIA INST OF TECH PASADENA  
ON THE THEORY OF NOISE LIKE ELECTROMAGNETIC FIELDS OF  
ARBITRARY SPECTRAL WIDTH  
BY JACOBSON A D  
DDC NUMBER 600454  
INSTRUMENT AF 49<638>01266  
PROJ/TASK 9768 01

AFOSR 64 0848  
CALIFORNIA INST OF TECH PASADENA  
NON EQUILIBRIUM ELECTRICAL CONDUCTIVITY IN A SEEDDED PLASMA  
BY ZUKOSKI E F  
COOL T A  
GIBSON E G  
DDC NUMBER 602683  
INSTRUMENT AF 49<638>01285  
PROJ/TASK 9752 01

AFOSR 64 0860  
GIANNINI CONTROLS CORP MALVERN PA  
SEPARATED FLOW IN CURVED CHANNELS WITH SECONDARY INJECTION  
BY CURTISS H A  
FEIL O G  
LIQUORNIK D J  
DDC NUMBER 602487  
INSTRUMENT AF 49<638>01218  
PROJ/TASK 9781 01

AFOSR 64 0861  
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BY MOSKOWITZ S E  
INSTRUMENT AF 49<638>00814  
PROJ/TASK 9749 01

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FLORIDA U GAINESVILLE  
RESPONSE OF A NONLINEAR BEAM TO RANDOM EXCITATION  
BY HERBERT R E  
DDC NUMBER 444475  
INSTRUMENT AF/AFOSR /0313/62  
PROJ/TASK 9782 01

AFOSR 64 0887  
FLORIDA U GAINESVILLE  
RANDOM VIBRATIONS OF NONLINEAR ELASTIC STRUCTURES  
BY HERBERT R E  
DDC NUMBER 602488  
INSTRUMENT AF/AFOSR /0313/62  
PROJ/TASK 9782 01

AFOSR 64 0899  
PRINCETON U N J  
THE COMBINATORY INTEGRAL TRANSFORM AND ITS APPLICATION  
TO HEUN'S EQUATION  
BY CHIU H H  
CHENG S I  
DDC NUMBER 606090  
INSTRUMENT AF 49<638>01271  
PROJ/TASK 9781 01

AFOSR 64 0938  
TUFTS U MEDFORD-MASS  
THE EFFECTS OF DISPLACED EARS ON AUDITORY LOCALIZATION  
BY FREEDMAN S J  
STAMPFER K  
DDC NUMBER 604569  
INSTRUMENT AF 49<638>01282  
PROJ/TASK 9778 01

AFOSR 64 0991  
GIANNINI CONTROLS CORP BERWYN PA  
THE EFFECT OF ELASTICITY ON THE STABILITY OF MANNED  
ROTATING SPACE STATIONS  
BY FRUEH D J  
MILLER J M  
DDC NUMBER 602486  
INSTRUMENT AF 49<638>01015  
PROJ/TASK 9782 01

AFOSR 64 1000  
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PLASMA PROPERTIES BY MOMENTUM CHANGE, FINAL REPORT, MAY  
1964  
BY LENN P D  
WARD D L  
INSTRUMENT AF 49<638>01160  
PROJ/TASK 9752 01

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JOHNS HOPKINS U BALTIMORE MD  
ANALOG COMPUTER RESEARCH INTO THE ENERGY/EXCHANGE BETWEEN  
GASES AND SOLIDS  
BY ROGERS M  
DDC NUMBER 605401  
INSTRUMENT AF 49<638>00496  
PROJ/TASK 9783 02

AFOSR 64 1002  
STANFORD U CALIF  
LINEARIZED THEORY OF TWO/DIMENSIONAL RADIATING GAS FLOW BY  
A MOMENT METHOD  
BY CHENG P  
DDC NUMBER 602684  
INSTRUMENT AF 49<638>01280  
PROJ/TASK 9781 01

AFOSR 64 1004  
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DIRECT OBSERVATIONS OF FATIGUE INDUCED DEFORMATION FAULTING  
IN THIN FOIL STAINLESS STEEL, FINAL REPORT, MAY 1964  
BY MURR L E  
SMITH P J  
DDC NUMBER 602797  
INSTRUMENT AF/AFOSR /0165/63  
PROJ/TASK 9782 02

AFOSR 64 1005  
NEW YORK U NEW YORK  
CONTROL SYSTEMS, FINAL REPORT, JUNE 64  
BY CHANG S S L  
RAGAZZINI J  
DDC NUMBER 602685  
INSTRUMENT AF/AFOSR /0321/62  
PROJ/TASK 9749 01

AFOSR 64 1037  
STANFORD U CALIF  
BUCKLING OF AXIALLY COMPRESSED CIRCULAR CYLINDRICAL SHELLS  
AT STRESSES SMALLER THAN THE CLASSICAL CRITICAL VALUE  
BY HOFF N J  
REHFELD L W  
INSTRUMENT AF 49<638>01276  
PROJ/TASK 9782 01

AFOSR 64 1038  
FLORIDA U GAINESVILLE  
ON THE STRESSES IN A NONLINEAR BEAM SUBJECT TO RANDOM  
EXCITATION  
BY HERBERT R E  
INSTRUMENT AF/AFOSR /0313/62  
PROJ/TASK 9782 01

AFOSR 64 1039  
BROOKLYN POLYTECHNIC INST NEW YORK NY  
A FURTHER NOTE ON THE CREEP ANALYSIS OF ANNULAR PLATES  
BY VENKATRAMAN B  
PATEL S A  
BIRNBAUM M R  
DDC NUMBER 604467  
INSTRUMENT AF 49<638>01360  
PROJ/TASK 9782 01

AFOSR 64 1055  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
THE CALCULATION OF TWO / AND THREE / DIMENSIONAL INVISCID  
UNSTEADY FLOWS BY THE METHOD OF CHARACTERISTICS, FINAL  
REPORT, JUN 1964  
BY SAUERWEIN H JR  
DDC NUMBER 605324  
INSTRUMENT AF/AFOSR /0156/64  
PROJ/TASK 9781 02

AFOSR 64 1056  
STANFORD U CALIF  
A UNIFORMLY VALID SOLUTION FOR THE FLOW OVER AN INCLINED  
CONE USING THE METHOD OF MATCHED ASYMPTOTIC EXPANSIONS  
BY MUNSON A G  
INSTRUMENT AF 49<638>01274  
PROJ/TASK 9781 01

AFOSR 64 1057  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
THE SPECTRUM OF RANDOM VIBRATION OF A NONLINEAR OSCILLATOR  
SUPPLEMENTARY TECHNICAL REPORT JUN 1964  
BY CRANDALL S H  
DDC NUMBER 604047  
INSTRUMENT AF 49<638>01314  
PROJ/TASK 9782 01

AFOSR 64 1058  
CATHOLIC U OF LOUVAIN BELGIUM  
TABLES OF BESSEL FUNCTIONS OF IMAGINARY ORDER  
BY BUCKENS F  
DDC NUMBER 602755  
INSTRUMENT AF/EOAR /0049/63  
PROJ/TASK 9782 01



AFOSR 64 1133  
AROUND PROVIDENCE R I  
A GENERAL SOLUTION OF THE HOPE CHARACTERISTIC FUNCTIONAL  
EQUATION FOR TURBULENCE  
BY HOSOKAWA I  
DDC NUMBER 647664  
INSTRUMENT AF/EOAR 49638001295  
PROJ/TASK 9783 02

AFOSR 64 1138  
CORNELL U ITHACA N Y  
HIGH SPEED AERODYNAMICS WITH REAL GAS EFFECTS, FINAL REPORT  
JUN 1964  
BY SPARS W B  
INSTRUMENT AF/AFOSR 7001762  
PROJ/TASK 9783 02

AFOSR 64 1139  
VON KARMAN INST BRUSSELS BELGIUM  
A POSSIBLE COMPROMISE BETWEEN ROCKET AND ATMOSPHERIC  
BRAKING  
BY MOULIN L  
DDC NUMBER 602391  
INSTRUMENT AF/EOAR 70089763  
PROJ/TASK 9749 01

AFOSR 64 1140  
VON KARMAN INST BRUSSELS BELGIUM  
APPROXIMATE ANALYSIS OF OPTIMUM LOW THRUST TRANSFER BETWEEN  
COPLANAR HYPERBOLIC ORBITS  
BY MOULIN L  
DDC NUMBER 602390  
INSTRUMENT AF/EOAR 70089763  
PROJ/TASK 9749 01

AFOSR 64 1141  
SOUTHERN CALIFORNIA U LOS ANGELES CALIF  
RESEARCH IN OPTICAL CONFERENCE AND NONLINEAR ESTIMATION  
THEORY  
BY YOUNG G O  
GIPSE C  
MACHILLAN R S  
INSTRUMENT AF/AFOSR 70188763  
PROJ/TASK 9768 02

AFOSR 64 1142  
CALIFORNIA U BERKELEY  
PLASMA HEATING BY INJECTION OF CHARGED PARTICLES  
BY HASEGAWA A  
BIRDSALL C E  
INSTRUMENT AF/AFOSR 70189763  
PROJ/TASK 6751

AFOSR 64 1143  
CALIFORNIA INST OF TECH PASADENA  
STUDIES ON OPTICAL SCATTERING AS A TECHNIQUE FOR PLASMA  
DIAGNOSTICS  
BY SCHWARTZ S F  
DDC NUMBER 601738  
INSTRUMENT AF 49638001322  
PROJ/TASK 9768 02

AFOSR 64 1144  
MCMASTER U HAMILTON ONTARIO CANADA  
SOME NEW NEUTRON SEPARATION ENERGIES FOR ISOTOPES OF MG,  
TI, PB, AND HI  
CAN J PHYS V62 PP926/936 MAY 1964  
BY MCCLATCHIE M  
HARRER R C  
BISHOP R L  
DUCKWORTH M E  
MOGG P G  
MACDOUGALL J D  
VAN ROOYHUYZEN P  
DDC NUMBER 642829  
INSTRUMENT AF/AFOSR 70159763  
PROJ/TASK 9751 02

AFOSR 64 1145  
FLORIDA STATE U TALLAHASSEE  
EXCITATION OF ISOMERIC ANALOG STATES IN BRV AND 90ZR  
PHYS REV LETTERS V12 NO PP198/200 24 FEB 64  
DDC NUMBER 642825  
BY FOX J D  
MOORE C F  
ROBSON D  
INSTRUMENT AF/AFOSR 70440763  
PROJ/TASK 9751 02

AFOSR 64 1146  
FLORIDA STATE U TALLAHASSEE  
ELASTIC SCATTERING OF ALPHA PARTICLES BY C12 IN THE  
BOMBARDING ENERGY RANGE 10 TO 19 MEV  
PHYS REV V193 NO6 PP1421/1433 23 MAR 64  
DDC NUMBER 642824  
BY CARTER F R  
MITCHELL G F  
DAVIS R W  
INSTRUMENT AF/AFOSR 70440763  
PROJ/TASK 9751 02

AFOSR 64 1147  
FLORIDA STATE U TALLAHASSEE  
INELASTIC SCATTERING OF 6/70 19/MEV ALPHA PARTICLES FROM  
CARBON  
PHYS REV V193 NO6 PP1434/1444 23 MAR 64  
BY MITCHELL G F  
CARTER F R  
DAVIS R W  
DDC NUMBER 642823  
INSTRUMENT AF/AFOSR 70440763  
PROJ/TASK 9751 02

AFOSR 64 1148  
CHICAGO U ILL  
MAGNETOSPHERIC CUTOFF FOR 1.5/MEV EXTRATERRESTRIAL PROTONS  
PHYS REV LETTERS V12 N11 PP269/271 16 MAR 64  
BY PAN C Y  
SIMPSON J A  
STONE E C  
DDC NUMBER 642851  
INSTRUMENT AF/AFOSR 70023762  
PROJ/TASK 9774 02

AFOSR 64 1149  
STANFORD U CALIF  
OBSERVATIONAL BASIS OF HACHS PRINCIPLE  
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BY SCHIFF L I  
DDC NUMBER 642816  
INSTRUMENT AF/AFOSR 70452762  
PROJ/TASK 9751 01

AFOSR 64 1150  
CAMBRIDGE U ENGLAND  
POLES AND SHADOW POLES IN THE MANY CHANNEL S MATRIX  
PHYS REV V193 NO6 PP1579/1580 23 MAR 64  
BY EDEN R J  
TAYLOR J R  
DDC NUMBER 642843  
INSTRUMENT AF/EOAR 70079763  
PROJ/TASK 9751 01

AFOSR 64 1151  
LONDON IMPERIAL COLL OF SCIENCE AND TECH ENGLAND  
A REMARKABLE REPRESENTATION OF THE GRAV AND ELECTROMAGNETIC  
LAGRANGIAN  
PHYS LETTERS V6 N5 PP157/158 1 MAR 64  
BY MATTHEWS P T  
SALAM A  
DDC NUMBER 642789  
INSTRUMENT AF/EOAR 70087762  
PROJ/TASK 9751 01

AFOSR 64 1152  
HARVARD U CAMBRIDGE MASS  
NON ABELIAN VECTOR GAUGE FIELDS AND THE ELECTROMAGNETIC  
FIELD  
REV MOD PHYS V36 N2 PP609/619 APR 64  
BY SCHWINGER J  
DDC NUMBER 642784  
INSTRUMENT AF 49638000389  
PROJ/TASK 9751 01

AFOSR 64 1153  
STANFORD U CALIF  
APPROXIMATE SOLUTION TO THE NED EQUATIONS  
PHYS REV LETTERS V12 N12 PP144/146 23 MAR 64  
BY SHAW G I  
DDC NUMBER 642784  
INSTRUMENT AF/AFOSR 70452762  
PROJ/TASK 9751 01

AFOSR 64 1154  
STANFORD U CALIF  
ELECTRO PRODUCTION OF PIONS FROM NUCLEI  
NUCL PHYS V91 PP112/120 1964  
BY CZYZ M  
WALECKA J D  
DDC NUMBER 642810  
INSTRUMENT AF/AFOSR 70452762  
PROJ/TASK 9751 01

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REGGE POLE THEORY OF THE PHOTOPRODUCTION OF PIONS  
NUOVO CIMENTO SERE V31 PP1024/1036 1 MAR 64  
BY DOMBRY N  
DDC NUMBER 642842  
INSTRUMENT AF/EOAR 70087762  
PROJ/TASK 9751 01

AFOSR 64 1156  
BRANDEIS U WALTHAM MASS  
CONDITIONS FOR FLATNESS IN GENERAL RELATIVITY  
ANN PHYS V23 N2 PP18/129 AUG 63  
BY ARNOLD J B  
DESER S  
DDC NUMBER 642801  
INSTRUMENT AF/AFOSR 70168763  
PROJ/TASK 9751 01

AFOSR 64 1157  
CALIFORNIA U SANTA BARBARA  
INTERNATIONALISM ISOLATIONISM, STRATEGY OF THE OTHER PLAYER  
AND THE PERSON GAME BEHAVIOR  
J ABNORMAL SOCIAL PSYCHOL V67 NO PP631/636 1963  
BY MCCLINTOCK C G  
HARRISON A A  
STRAND S  
GALLO P  
DDC NUMBER 642852  
INSTRUMENT AF 49638000794  
PROJ/TASK 9778 02

AFOSR 64 1158  
HEBREW U JERUSALEM ISRAEL  
A STUDY OF NEW FARMERS IN ISRAEL  
SOCIAL RURALIS V4 N1 PP3/51 1964  
BY WEINTRAUB D  
DDC NUMBER 642784  
INSTRUMENT AF/EOAR 70078763  
PROJ/TASK 9778 02

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PEACE RESEARCH INST WASHINGTON D C  
COMPARISON OF TIME ERROR PHENOMENA IN DIFFERENT SENSE  
MODALITIES  
PSYCHOLOGIA V6 NO PP207/214 DEC 1963  
BY INOMATA S  
DDC NUMBER 642840  
INSTRUMENT AF/AFOSR 70455762  
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CAMBRIDGE U ENGLAND  
CONTOUR DISCRIMINATION IN A YOUNG MONKEY WITH STRIATE  
CORTICAL ABLATION  
NEUROPSYCHOLOGIA V1 PP145/164 1963  
BY WEISERANTZ L  
DDC NUMBER 642839  
INSTRUMENT AF/EOAR 70078762  
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EXPERIMENTAL PROCEDURES AFFECTING EVOKED RESPONSES RECORDED  
FROM AUDITORY CORTIX  
ELECTROENCEPHALOG CLIN NEUROPHYSIOL V15 PP947/957 1963  
BY NEFF M D  
GREEN G M  
DDC NUMBER 642798  
INSTRUMENT AF 49638001142  
PROJ/TASK 9778 01

AFOSR 64 1162  
ILLINOIS U URBANA  
MEDIATION AND FORGETTING  
PSYCHOLOGICAL REPTS V14 PP591/600 1964  
BY ADAMS J A  
DDC NUMBER 642845  
INSTRUMENT AF/AFOSR 70155763  
PROJ/TASK 9778 01

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WASHINGTON STATE U PULLMAN  
SHORT TERM RETENTION AS A FUNCTION OF RECALL POINT CODING  
PSYCHOLOGICAL REPTS V14 PP152/154 1964  
BY LLOYD K F  
DDC NUMBER 642834  
INSTRUMENT AF/AFOSR 70256763  
PROJ/TASK 9778 01

AFOSR 64 1164  
MICHIGAN U ANN ARBOR MICH  
PERCEPTUAL MOTOR SKILL LEARNING  
CATEGORIES HUMAN LEARNING PP243/266 1964  
BY FITTS P M  
DDC NUMBER 642821  
INSTRUMENT AF 49638000449  
PROJ/TASK 9778 01

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J ABNORMAL SOCIAL PSYCHOL V67 N2 PP105/113 1963  
BY MCCLINTOCK C G DDC NUMBER 442833  
INSTRUMENT AF 49<638>00794  
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AFOSR 64 1167  
GOTEBORG U SWEDEN  
ANALYSIS OF THE MAGNESIUM ATP DEPENDENT STORAGE MECHANISM  
IN THE AMINE GRANULES OF THE ADRENAL MEDULLA  
ACTA PHYSIOL SCAND SUPPL215 V59 PP5/38 1963  
BY CARLSSON A DDC NUMBER 442786  
HILLARP N INSTRUMENT AF/EOAR /0014/63  
WALDECK B PROJ/TASK 9777 01

AFOSR 64 1168  
LONDON U ENGLAND  
EQUIPMENT FOR DETECTING ANIMAL ULTRASOUND  
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BY PYE J D DDC NUMBER 442787  
FLINN M INSTRUMENT AF/EOAR /0030/63  
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GOTEBORG U SWEDEN  
EFFECT OF CHLORPROMAZINE OR HALOPERIDOL ON FORMATION OF 3/  
METHOXYTYRAMINE AND NORMETANEPHRINE IN MOUSE BRAIN  
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BY CARLSSON A DDC NUMBER 442788  
LINDQVIST M INSTRUMENT AF/EOAR /0014/63  
PROJ/TASK 9777 01

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NEUROPHYSIOLOGICAL ASPECTS OF HOMEOSTASIS  
ANN REV PHYSIOL V26 PP271/288 1964  
BY SODERBERG U DDC NUMBER 442789  
INSTRUMENT AF 61<052>00119  
PROJ/TASK 9777 01

AFOSR 64 1171  
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IN VITRO STUDIES ON THE SECRETION AND BIOSYNTHESIS OF  
VASOPRESSIN  
FEDERATION AM SOC EXP BIOL PROC V23 N2 MAR/APR 64  
BY HALLER E INSTRUMENT AF/AFOSR /0408/63  
TAKARATAK Y PROJ/TASK 9777 01  
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BIOLOGY DEPT PARIS FRANCE  
EFFECTS OF CHANGES IN PARTIAL PRESSURE OF CARBON DIOXIDE  
AND PARTIAL PRESSURE OF OXYGEN ON RHYTHMIC POTENTIALS  
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BY CHALAZONITIS N DDC NUMBER 442586  
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PROJ/TASK 9777 01

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QUART J EXP PHYSIOL V48 PP253/257 1963  
BY FALCK B DDC NUMBER 442989  
HAGGENDAL J INSTRUMENT AF/EOAR /0044/61  
OWMAN C PROJ/TASK 9777 01

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SAO PAULO U BRAZIL  
AORTIC DEPRESSOR FIBERS IN THE RAT / AN  
ELECTROPHYSIOLOGICAL STUDY  
AM J PHYSIOL V205 N4 PP771/774 OCT 63  
BY KRIEGER F M DDC NUMBER 442990  
MARSEILLAN R F INSTRUMENT AF/AFOSR /0060/61  
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KAROLINSKA INST STOCKHOLM SWEDEN  
A CRYSTALLOGRAPHIC STUDY OF VERTEBRATE OTOLITHS  
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BY CARLSTROM D DDC NUMBER 442991  
INSTRUMENT AF/EOAR /0011/62  
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GALWAY U COLL IRELAND  
BILIPROTEINS OF CRYPTOMONAD ALGAE  
PROC ROY IRISH ACAD V63 SECT B N10 PP191/200 JAN 64  
BY OHEOCHA C DDC NUMBER 442835  
OCARRA P INSTRUMENT AF/AFOSR /0038/62  
MITCHELL D PROJ/TASK 9777 01

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WEIZMAN INST OF SCIENCE REHOVOTH ISRAEL  
THE RELATION OF THE ADENOSINE 5 PRIME TRIPHOSPHATE  
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BY BEN-YEHOSHUA S DDC NUMBER 442836  
AVRON M INSTRUMENT AF/EOAR /0059/62  
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A COUPLING FACTOR IN PHOTOPHOSPHORYLATION  
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BY AVRON M DDC NUMBER 442795  
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BY BACCELLI G DDC NUMBER 442837  
GUAZZI M INSTRUMENT AF 61<052>00253  
LIRRETTI A PROJ/TASK 9777 01  
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AFOSR 64 1180  
BRUSSELS FREE U BELGIUM  
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BY AVRON M DDC NUMBER 442992  
INSTRUMENT AF/EOAR /0059/62  
PROJ/TASK 9777 01

AFOSR 64 1183  
LEICESTER U ENGLAND  
THE UTILIZATION OF ITACONATE BY PSEUDOMONAS SP.  
BIOCHEM J V91 PP82/91 1964  
BY COOPER R A DDC NUMBER 442994  
KORNBERG H L INSTRUMENT AF/EOAR /0077/62  
PROJ/TASK 9777 01

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FERROCYANIDE  
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BY AVRON M DDC NUMBER 442822  
SHAVIT N INSTRUMENT AF/EOAR /0059/62  
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TRANSPORT  
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BY AVRON M DDC NUMBER 442791  
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GOTEBORG U SWEDEN  
EFFECTS OF SOME PHARMACOLOGICALLY ACTIVE AMINES ON THE  
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ACTA PHYSIOL SCAND V60 PP136/140 1964  
BY JONASSON J DDC NUMBER 442790  
ROSENGREN F INSTRUMENT AF/EOAR /0014/63  
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GOTEBORG U SWEDEN  
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RABBITS  
ACTA PHYSIOL SCAND V59 PP295/296 1963  
BY HAGGENDAL J DDC NUMBER 442792  
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UPPSALA U SWEDEN  
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BY TEORELL T DDC NUMBER 442995  
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BY QUAYLE J R DDC NUMBER 442996  
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A CONVENIENT PREPARATION OF L HOMOCYSTEINE FROM L METHIONINE  
J CHEM SOC PP869/870 FEB 64  
BY HOPE D B DDC NUMBER 442997  
HUMPHRIES J F INSTRUMENT AF/EOAR /0080/62  
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BY DESMETS J F DDC NUMBER 442794  
DELWAIDE P J INSTRUMENT AF/EOAR /0043/64  
PROJ/TASK 9777 01

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RESEARCH IN PHOTOBIOLOGY AND PHOTOCHEMISTRY, FINAL REPORT.  
JUN 1964  
BY GAFFRON H DDC NUMBER 602756  
INSTRUMENT AF/AFOSR /0190/62  
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GENICULATE BODY AND OPTIC RADIATIONS IN AWAKE AND  
SLEEPING CATS  
EXP NEUROL V9 N1 PP17/30 JAN 64  
BY PALESTINI M DDC NUMBER 442838  
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ROSADINI G INSTRUMENT AF/EOAR  
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AFOSR 64 1197  
CALIFORNIA U BERKELEY  
THE PROBLEM OF IDENTIFICATION OF DISCRETE TIME PROCESSES  
BY GALTIERI C A DDC NUMBER 443007  
INSTRUMENT AF/AFOSR /0292/63  
PROJ/TASK 9749 01

AFOSR 64 1198  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
CROSS FIELD MAGNETOABSORPTION IN SEMICONDUCTORS  
PHYS REV LETTERS V12 N17 PP471/473 27 APR 64  
BY VREHEN Q H F DDC NUMBER 443007  
LAX B INSTRUMENT AF 19<604>07344  
PROJ/TASK 9764 00

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INTERNATIONAL BUSINESS MACHINES CORP YORKTOWN HEIGHTS N Y  
EUROPIUM ORTHOSILICATE, A NEW TRANSPARENT FERROMAGNET  
PHYS REV LETTERS V11 N6 PP251 252 15 SEP 63  
BY SHAFER M W DDC NUMBER 443008  
MCGUIRE T R INSTRUMENT AF 49<638>01230  
SUITS J C PROJ/TASK 9763 02

AFOSR 64 1200  
INTERNATIONAL BUSINESS MACHINES CORP YORKTOWN HEIGHTS N Y  
NUCLEAR MAGNETIC RESONANCE OF GD155 AND GD157 IN THE CUBIC  
FERROMAGNET GDN  
PHYS REV LETTERS V12 N1 PP20/21 6 JAN 64  
BY BOYD E L DDC NUMBER 443009  
GAMBINO R J INSTRUMENT AF 49<638>01230  
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AFOSR 64 1201  
INTERNATIONAL BUSINESS MACHINES CORP YORKTOWN HEIGHTS N Y  
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BY CHARAP S H DDC NUMBER 443010  
BOYD E L INSTRUMENT AF 49<638>01230  
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AFOSR 64 1202  
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EPR OF EXCHANGE COUPLED PAIRS OF EU2 PLUS IN CAO AND SRO  
J APPL PHYS V35 N3 PP989/990 MAR 64  
BY CALHOUN R A DDC NUMBER 443011  
OVERMEYER J INSTRUMENT AF 49<638>01230  
PROJ/TASK 9763 02

AFOSR 64 1203  
INTERNATIONAL BUSINESS MACHINES CORP YORKTOWN HEIGHTS N Y  
SPECIFIC HEAT OF EUS  
SOLID STATE COMMUN V1 N6 PP127/131 1963  
BY MORUZZI V L DDC NUMBER 443013  
TEANEY D T INSTRUMENT AF 49<638>01230  
PROJ/TASK 9763 02

AFOSR 64 1204  
INTERNATIONAL BUSINESS MACHINES CORP YORKTOWN HEIGHTS N Y  
THE CURIE FIELD SPLITTING OF THE GROUND STATE OF EU2 PLUS  
IN ALKALINE EARTH OXIDES  
PHYS LETTERS V9 N2 PP108/109 1 APR 64  
BY OVERMEYER J DDC NUMBER 443012  
GAMBINO R J INSTRUMENT AF 49<638>01230  
PROJ/TASK 9763 02

AFOSR 64 1205  
INTERNATIONAL BUSINESS MACHINES CORP YORKTOWN HEIGHTS N Y  
FERROMAGNETIC EUROPIUM COMPOUNDS  
J APPL PHYS V35 N3 PT2 PP984/988 MAR 1964  
BY MCGUIRE T R DDC NUMBER 443014  
SHAHER M W INSTRUMENT AF 49<638>01230  
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AFOSR 64 1207  
TECHNION RESEARCH AND DEVELOPMENT FOUNDATION HAIFA ISRAEL  
TIME AND FIELD EFFECTS IN THE ELECTRICAL CONDUCTION OF THIN  
METALLIC LAYERS AT LOW TEMPERATURES  
PHYSICA V30 PP389/397 1964  
BY HIRSCH A A DDC NUMBER 443015  
FRIEDMAN N INSTRUMENT AF 61<052>00481  
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TECHNION RESEARCH AND DEVELOPMENT FOUNDATION HAIFA ISRAEL  
ELECTRICAL CONDUCTION OF THIN METALLIC LAYERS AT HIGH  
FREQUENCIES DOWN TO LIQUID HELIUM TEMPERATURES  
PHYSICA V30 PP258/264 1964  
BY HIRSCH A A DDC NUMBER 443016  
BAZIAN S INSTRUMENT AF 61<052>00481  
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TECHNION RESEARCH AND DEVELOPMENT FOUNDATION HAIFA ISRAEL  
EFFECT OF COLD ROLLING ON MAGNETIZATION REVERSAL OF HIGH  
PURITY NICKEL TAPES  
J APPL PHYS V35 N3 PT2 PP909/910 MAR 1964  
BY HIRSCH A A DDC NUMBER 443017  
INSTRUMENT AF 61<052>00481  
PROJ/TASK 9763 02

AFOSR 64 1212  
PENNSYLVANIA STATE U UNIVERSITY PARK  
BOMBARDMENT OF TUNGSTEN WITH 20/KEV HELIUM ATOMS IN A FIELD  
ION MICROSCOPE  
J APPL PHYS V35 N4 PP1256/1261 APR 64  
BY SINHA M K DDC NUMBER 443018  
MULLER E W INSTRUMENT AF/AFOSR /0096/62  
PROJ/TASK 9761 03

AFOSR 64 1213  
CALIFORNIA U LA JOLLA  
SIMPLE MODEL FOR THE SUPERCONDUCTIVITY OF LANTHANUM AND  
URANIUM  
PHYS REV V134 N1A PP15/A21 6 APR 64  
BY KUPER C G DDC NUMBER 443019  
JENSEN M A INSTRUMENT AF/AFOSR /0344/62  
HAMILTON D C PROJ/TASK 9763 02

AFOSR 64 1214  
ISTITUTO ELETTROTECNICO NAZIONALE  
TORINO ITALY  
GRAPHITE DEFECTS OBSERVED BY ELECTRON MICROSCOPY  
J APPL PHYS V35 N3 PT1 PP683/685 MAR 64  
BY BONFIGLIOLI G DDC NUMBER 443020  
MOJONI A INSTRUMENT AF/EOAR /0087/63  
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PITTSBURGH U PA  
QUESTION OF SIZE CORRECTIONS TO THE STEADY DIAMAGNETIC  
SUSCEPTIBILITY OF SMALL SYSTEMS  
PHYS REV V134 N2A PP336/A344 20 APR 64  
BY FRIEDMAN L DDC NUMBER 443021  
INSTRUMENT AF/AFOSR /0196/63  
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AFOSR 64 1216  
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SPECTRUM IN THIN FERROMAGNETIC FILMS  
J APPL PHYS V35 N3 PT2 PP804/805 MAR 1964  
BY DAVIES J T DDC NUMBER 443022  
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PROJ/TASK 9761 01

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CALIFORNIA U LA JOLLA  
SUPERCONDUCTIVITY OF THE NOBLE METALS AND ITS ALLOYS  
< GERMAN >  
Z METALLK V55 N4 PP195/199 1964  
BY RAUB C DDC NUMBER 443023  
INSTRUMENT AF/AFOSR /0631/64  
PROJ/TASK 9763 02

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SUPERCONDUCTING HUME / ROTHERY PHASE  
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BY MERRIAM M F DDC NUMBER 443024  
INSTRUMENT AF/AFOSR /0631/64  
PROJ/TASK 9763 02

AFOSR 64 1219  
PENNSYLVANIA STATE U UNIVERSITY PARK  
REFLECTION AND TRANSMISSION OF ELECTRONS THROUGH SURFACE  
POTENTIAL BARRIERS  
SURFACE SCI V1 N2 PP194/212 APR 64  
BY CUTLER P H DDC NUMBER 442847  
DAVIS J C INSTRUMENT AF/AFOSR /0100/61  
PROJ/TASK 9761 01

AFOSR 64 1220  
PENNSYLVANIA STATE U UNIVERSITY PARK  
THE EFFECT OF CORRELATION ON THE SURFACE POTENTIAL OF A  
FREE ELECTRON METAL  
J PHYS CHEM SOLIDS V25 PP105/113 1964  
BY LOUCKS T L DDC NUMBER 442925  
CUTLER P H INSTRUMENT AF/AFOSR 0100/61  
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PENNSYLVANIA STATE U UNIVERSITY PARK  
BAND STRUCTURE AND FERMIL SURFACE OF BERYLLIUM  
PHYS REV V133 N3A PP819/A829 3 FEB 64  
BY LOUCKS T L DDC NUMBER 442848  
CUTLER P H INSTRUMENT AF/AFOSR /0100/61  
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UPPSALA U SWEDEN  
PARALLEL FIELD MAGNETOACOUSTIC EFFECT IN ANTIMONY  
SOLID STATE COMMUN V2 PP7/8 1964  
BY RECKMAN O DDC NUMBER 442850  
ERIKSSON L INSTRUMENT AF/EOAR /0053/63  
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AFOSR 64 1223  
UPPSALA U SWEDEN  
DISLOCATION RELAXATION IN ALUMINUM  
SOLID STATE COMMUN V1 PP234/236 1963  
BY MONGY M DDC NUMBER 442851  
SALAMA K INSTRUMENT AF/EOAR /0053/63  
RECKMAN O PROJ/TASK 9763 02

AFOSR 64 1224  
MCMASTER U HAMILTON ONTARIO CANADA  
THE OXIDATION KINETICS OF ZIRCONIUM IN THE TEMPERATURE  
RANGE 400 DEGREES / 600 DEGREES C  
J ELECTROCHEM SOC V111 N5 PP564/568 MAY 1964  
BY HUSSEY R J DDC NUMBER 442802  
SMELTZER W W INSTRUMENT AF/AFOSR /0515/64  
PROJ/TASK 9763 01

AFOSR 64 1225  
PENNSYLVANIA STATE U UNIVERSITY PARK  
HIGH TEMPERATURE TRANSITIONS IN RARE EARTH NIOBATES AND  
TANTALATES  
J AM CERAM SOC V47 N2 PP55/58 FEB 64  
BY STUBICAN V S DDC NUMBER 442803  
INSTRUMENT AF/AFOSR /0208/63  
PROJ/TASK 9761 02

AFOSR 64 1226  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
QUANTUM THEORY OF INTERBAND FARADAY AND VOIGT EFFECTS  
PHYS REV V134 N1A PP140/A153 6 APR 64  
BY HALPERN J DDC NUMBER 442811  
LAX B INSTRUMENT AF 19<604>07344  
NISHINA Y PROJ/TASK 9764 00

AFOSR 64 1227  
MCMASTER U HAMILTON ONTARIO CANADA  
THE PARABOLIC OXIDATION KINETICS OF ALPHA ZIRCONIUM AT 850  
DEGREES C  
ACTA MET V12 PP409/415 APR 64  
BY WALLWORK G R DDC NUMBER 442817  
SMELTZER W W INSTRUMENT AF/AFOSR /0108/61  
ROSA C J PROJ/TASK 9763 01

AFOSR 64 1229  
MCMASTER U HAMILTON ONTARIO CANADA  
THE EVAPORATION OF IRON CHROMIUM ALLOYS CONTAINING 5 AND 25  
PER CENT CHROMIUM IN THE TEMPERATURE RANGE 900 DEGREES/  
1080 DEGREES C  
J ELECTROCHEM SOC V110 N9 PP997/1001 SEP 63  
BY MORRIS L A DDC NUMBER 442854  
SMELTZER W W INSTRUMENT AF/AFOSR /0108/61  
PROJ/TASK 9763 01

AFOSR 64 1230  
ARIZONA STATE U TEMPE  
OXYGEN VACANCIES AND ELECTRICAL CONDUCTION IN METAL OXIDES  
PHYS REV V133 N5A PPA1431/A1436 2 MAR 64  
BY KEVANE C J DDC NUMBER 442809  
INSTRUMENT AF/AFOSR /0130/62  
PROJ/TASK 9763 02

AFOSR 64 1231  
WAYNE STATE U DETROIT MICH  
LOW TEMPERATURE ELASTIC MODULI OF ALUMINUM  
J APPL PHYS V35 N2 PP327/330 FEB 64  
BY KAMM G N DDC NUMBER 442807  
ALERS G A INSTRUMENT AF/AFOSR /0379/62  
PROJ/TASK 9761 03

AFOSR 64 1233  
CALIFORNIA U LA JOLLA  
ON THE SUPERCONDUCTIVITY OF TERNARY BETA TITANIUM ALLOYS  
< GERMAN >  
Z PHYSIK V178 PP216/220 1964  
BY RAUB C J DDC NUMBER 442805  
INSTRUMENT AF/AFOSR /0344/62  
PROJ/TASK 9763 02

AFOSR 64 1234  
CALIFORNIA U LA JOLLA  
SUPERCONDUCTIVITY OF SOLID SOLUTIONS OF TI AND ZR WITH CO,  
RH, AND IR  
PHYS REV V133 N4A PPA932/A934 17 FEB 64  
BY RAUB C J DDC NUMBER 442808  
HULL G W JR INSTRUMENT AF/AFOSR /0344/62  
PROJ/TASK 9763 02

AFOSR 64 1235  
CALIFORNIA U RIVERSIDE  
THERMAL RESISTANCE PRODUCED BY POINT IMPERFECTIONS IN  
CRYSTALS  
NUOVO CIMENTO SERX V29 PP883/891 16 AUG 63  
BY CALLAWAY J DDC NUMBER 442806  
INSTRUMENT AF/AFOSR /0318/62  
PROJ/TASK 9761 01

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CASE INST OF TECH CLEVELAND OHIO  
GALVANOMAGNETIC INVESTIGATION OF THE FERMI SURFACE OF  
MAGNESIUM  
PHYS REV V133 N2A PPA443/A451 20 JAN 64  
BY STARK R W DDC NUMBER 442803  
ECK T G INSTRUMENT AF/AFOSR /0222/62  
GORDON W L PROJ/TASK 9763 02

AFOSR 64 1237  
CHICAGO U ILL  
TEMPERATURE DEPENDENCE OF THE ULTRASONIC ATTENUATION IN  
GERMANIUM  
PHYS REV V132 N6 PP2477/2483 15 DEC 63  
BY MILLER B I DDC NUMBER 442852  
INSTRUMENT AF/AFOSR /0178/62  
PROJ/TASK 9763 02

AFOSR 64 1238  
ROCHESTER U N Y  
ORIENTATION OF THE M CENTER  
PHYS STAT SOL V4 PP601/604 1964  
BY DEXTER D L DDC NUMBER 442804  
INSTRUMENT AF/AFOSR /0145/62  
PROJ/TASK 9761 01

AFOSR 64 1240  
CATHOLIC U OF LOUVAIN BELGIUM  
A CRYOSTAT FOR TEMPERATURES BETWEEN 14 AND 300 DEGREES K,  
ADAPTABLE FOR EXPERIMENTS AT HIGH PRESSURE  
CRYOGENICS DPA/11 FEB 64  
BY VAN ITTFORREK A DDC NUMBER 442799  
VERREKX O INSTRUMENT AF/EOAR /0040/63  
STAES K PROJ/TASK 9763 02  
THEEUWES F

AFOSR 64 1241  
HARVARD U CAMBRIDGE MASS  
A NINTH BARYON  
PHYS REV LETTERS V12 N9 PP237/239 2 MAR 64  
BY SCHWINGER J DDC NUMBER 442853  
INSTRUMENT AF 49<638>00589  
PROJ/TASK 9751 01

AFOSR 64 1242  
PHILIPS LABS INC IRVINGTON ON HUDSON N Y  
A METHOD FOR THE DETERMINATION OF THE CENTROID OF AN X/RAY  
DISTRIBUTION  
ACTA CRYST V16 PT11 PP1179/1180 NOV 63  
BY TAYLOR J DDC NUMBER 442820  
MACK M INSTRUMENT AF 49<638>00620  
DARRISH W PROJ/TASK 9763

AFOSR 64 1243  
PHILIPS LABS INC IRVINGTON ON HUDSON N Y  
CENTROID METHOD OF ACCURATE LATTICE/PARAMETER DETERMINATION  
ACTA CRYST V16 PT13 PPA157 1963  
BY DARRISH W DDC NUMBER 442775  
MACK M INSTRUMENT AF 49<638>00620  
TAYLOR J W PROJ/TASK 9763

AFOSR 64 1244  
SYRACUSE U N Y  
IMPURITY STATES ASSOCIATED WITH SUBSIDIARY ENERGY BAND  
MINIMA  
J PHYS CHEM SOLIDS V24 PP1593/1599 1963  
BY KAPLAN H INSTRUMENT AF 49<638>00642  
PROJ/TASK 9761 01

AFOSR 64 1245  
SYRACUSE U N Y  
MULTIPHONON PROCESSES IN THE PHOTOCONDUCTIVITY OF INSB  
PHYS REV LETTERS V12 N7 PP163/166 17 FEB 64  
BY STOCKER H J DDC NUMBER 442818  
STANNARD C R JR INSTRUMENT AF 44<663>600642  
KAPLAN H PROJ/TASK 9761 01  
LEVINSTEIN H

AFOSR 64 1246  
MINNESOTA U MINNEAPOLIS  
NATURAL SPECTRUM OF POLYCRYSTALLINE YIG AS A FUNCTION OF  
DENSITY  
J APPL PHYS V35 N3 PT2 PP894/895 MAR 64  
BY HOLM J D DDC NUMBER 442800  
MORRISH A H INSTRUMENT AF 49<638>00803  
PROJ/TASK 9761 03

AFOSR 64 1247  
MINNESOTA U MINNEAPOLIS  
MECHANISM OF SPIN WAVE PINNING IN SOME FERROMAGNETIC FILMS  
PHYS LETTERS V7 N4 PP229/230 1 DEC 63  
BY SEARLE C W DDC NUMBER 442797  
MORRISH A H INSTRUMENT AF 49<638>00803  
PROJ/TASK 9761 03

AFOSR 64 1249  
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GALVANOMAGNETIC EFFECTS IN SEMICONDUCTORS  
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BY BEER A C INSTRUMENT AF 49<638>00959  
PROJ/TASK 9761 02

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EVIDENCE FOR THE EXISTENCE OF OVERLAPPING VALENCE AND  
CONDUCTION BANDS IN SNT  
J APPL PHYS V34 N10 PP3083/3085 OCT 63  
BY DAMON D H DDC NUMBER 442814  
MARTIN C R INSTRUMENT AF 49<638>01165  
MILLER R C PROJ/TASK 9763 02

AFOSR 64 1251  
INTERNATIONAL BUSINESS MACHINES CORP YORKTOWN HEIGHTS N Y  
SOLID TRANSPORT RATE IN THE VAPOR/SOLVENT GROWTH SYSTEM  
ZNS/I  
J PHYS CHEM SOLIDS V25 PP187/190 1964  
BY JONA F DDC NUMBER 442819  
MANDEL G INSTRUMENT AF 49<638>01201  
PROJ/TASK 9761 02

AFOSR 64 1252  
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CHEMICAL EQUILIBRIA IN THE GERMANIUM / IODINE AND GERMANIUM  
BROMINE SYSTEMS BY WEIGHT / LOSS MEASUREMENTS  
J ELECTROCHEM SOC V111 N4 PP413/417 APR 64  
BY JONA F DDC NUMBER 442813  
LEVER R F INSTRUMENT AF 49<638>01201  
WFENDT H R PROJ/TASK 9761 02

AFOSR 64 1253  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
SHIELDING AND DISTORTION OF RARE EARTH CRYSTAL FIELD  
SPECTRA  
PHYS REV V133 N6A PPA1571/A1584 16 MAR 64  
BY WATSON R F DDC NUMBER 442815  
FREEMAN A J INSTRUMENT AF 19<604>07344  
PROJ/TASK 9764 00

AFOSR 64 1254  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
DETERMINATION OF EFFECTIVE MASSES FROM GIANT QUANTUM  
OSCILLATIONS IN ULTRASONIC ABSORPTION  
PHYS REV LETTERS V12 N7 PP166/168 17 FEB 64  
BY SHAPIRA Y DDC NUMBER 442812  
LAX B INSTRUMENT AF 19<604>07344  
PROJ/TASK 9764 00

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OSLO U NORWAY  
SOME THEORETICAL INVESTIGATIONS FOR CLOSED STATES OF THE  
NEGATIVE ION. PART I  
PHYSICA MATH PP3/35 FEB 1964  
BY MIDTAL J DDC NUMBER 605259  
INSTRUMENT AF/EOAR /0032/64  
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BY CFLL J W INSTRUMENT AF/AFOSR /0444/63  
PROJ/TASK 9749 01



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BY LORENTZ G G DDC NUMBER 442771  
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PHOTOMETABOLISM, FINAL REPORT, JUN 1964  
BY LINDSTROM E S DDC NUMBER 602788  
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BY PHILBROOK G E DDC NUMBER 602798  
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SAO PAULO U BRAZIL  
ROLE OF VARIOUS BRAIN STRUCTURES ON PHYSIOLOGICAL FUNCTIONS  
FINAL REPORT, JUN 1964  
BY COVIAN M R DDC NUMBER 602786  
INSTRUMENT AF/AFOSR /0311/63  
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MICHIGAN U IN ARBOR MICH  
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FUNCTIONS, FINAL REPORT, JUN 1964  
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BY MCILWAIN H DDC NUMBER 602790  
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ALTERATIONS OF BRAIN BIOCHEMISTRY AND DEVELOPMENT OF  
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BY SHIFFMAN F F DDC NUMBER 602785  
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FINAL REPORT, FEB 1964  
BY SCHRAUB F A DDC NUMBER 602795  
KLINE S J INSTRUMENT AF 49<638>01278  
HENRY J PROJ/TASK 9781 02  
RUNSTADLER P W JR  
LITTELL A

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BY WORTMANN F X DDC NUMBER 602796  
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WITH REFERENCE TO THE ROLLING UP OF A VORTEX SHEET, FINAL  
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BY TAKAMI H DDC NUMBER 602789  
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NOTE ON THE USE OF CHEBYSHEV POLYNOMIALS FOR INTEGRATION OF  
ORDINARY DIFFERENTIAL EQUATIONS  
SCIENTIFIC REPORT NO 4 JUN 1964  
BY MOULIN L DDC NUMBER 603740  
INSTRUMENT AF/EOAR /0039/63  
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BY QUINLAN P M DDC NUMBER 603734  
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A PERIMETRIC STUDY OF VISUAL FIELD DEFECTS IN MONKEYS  
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BY COWEY A DDC NUMBER 444264  
WEISKRANTZ L INSTRUMENT AF 61<052>00185  
PROJ/TASK 9778 01

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BY COWEY A DDC NUMBER 444263  
INSTRUMENT AF 61<052>00185  
PROJ/TASK 9778 01

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STRIATE CORTEX LESIONS AND VISUAL ACUITY OF THE RHESUS  
MONKEY  
J COMP PHYSIOL PSYCHOL V56 N2 PP225/231 1963  
BY WEISKRANTZ L DDC NUMBER 444262  
COWEY A INSTRUMENT AF 61<052>00185  
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CAMBRIDGE U ENGLAND  
LOCOMOTOR ACTIVITY FOLLOWING LATERAL FRONTAL LESIONS IN  
RHESUS MONKEYS  
J COMP PHYSIOL PSYCHOL V56 N2 PP232/236 1963  
BY GROSS C G DDC NUMBER 444261  
INSTRUMENT AF 61<052>00185  
PROJ/TASK 9778 01

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BY WEISKRANTZ L DDC NUMBER 444256  
COWEY A INSTRUMENT AF 61<052>00185  
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HYPOTHESIS  
AM SOCIOL REV V29 N2 PP216/226 APR 64  
BY NFAL A G DDC NUMBER 444257  
SEEMAN M INSTRUMENT AF 49<638>00741  
PROJ/TASK 9778 01

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TEXAS U AUSTIN  
ATTRACTION AS A FUNCTION OF ATTITUDE SIMILARITY/  
DISSIMILARITY / THE EFFECT OF TOPIC IMPORTANCE  
PSYCHON SCI V1 PP93/94 1964  
BY RYRNF D DDC NUMBER 444265  
NELSON D INSTRUMENT AF/AFOSR /0261/63  
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WASHINGTON STATE U PULLMAN  
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BY LLOYD K E DDC NUMBER 444266  
INSTRUMENT AF/AFOSR /0256/63  
PROJ/TASK 9778 01

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DUKE U DURHAM N C  
COGNITIVE STRUCTURING, FIELD DEPENDENCE / INDEPENDENCE, AND  
THE PSYCHOPHYSIOLOGICAL RESPONSE TO PERCEPTUAL ISOLATION  
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BY CULVER C M DDC NUMBER 444259  
COHEN S I INSTRUMENT AF/AFOSR /0057/63  
SILVERMAN A J PROJ/TASK 9779 01  
SHMAVONIAN B M

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STANFORD U CALIF  
A GENERALIZED METHOD FOR TREATING SINGULAR PERTURBATION  
PROBLEMS  
BY NAYFEH A H DDC NUMBER 606083  
INSTRUMENT AF 49<638>01274  
PROJ/TASK 9781 01

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LYON U FRANCE  
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BY JOUVET M DDC NUMBER 603737  
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BY GREGORY R L DDC NUMBER 444258  
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BY MEAD C A  
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INSTRUMENT DA /28/043/AMC/00073  
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INSTRUMENT DA /36/039/AMC/02208  
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SPIN RELAXATION OF OPTICALLY PUMPED CESIUM  
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ARMY RESEARCH OFFICE DURHAM N C  
A STUDY OF THE PERFORMANCE OF LINEAR AND NONLINEAR FILTERS  
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ELECTROMAGNETIC INDUCTION ON AN EXPANDING CONDUCTING SPHERE  
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INSTRUMENT DA /36/039/AMC/03200  
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THEORY OF COLLISION BROADENING IN THE SUDDEN APPROXIMATION  
BY BYRON F W JR  
FOLFY H M  
DDC NUMBER 444467  
INSTRUMENT DA /36/039/SC/78330  
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SELF BROADENING OF OPTICAL DOUBLE RESONANCE LINES IN  
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DDC NUMBER 444468  
INSTRUMENT DA /36/039/SC/78330  
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INSTRUMENT NONR /1841/10/  
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ARTIFICIALLY STIMULATED VERY LOW FREQUENCY RADIATION FROM  
THE IONOSPHERE  
J GEOPHYS RES V69 N11 PP2391/2394 JUN 64  
BY HELLIWELL R A  
KATSUPRAKIS J  
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DDC NUMBER 444474  
INSTRUMENT AF/AFOSR /0370/62  
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AFOSR 64 1370  
STANFORD U CALIF  
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BY ANGERAMI J J  
THOMAS J O  
DDC NUMBER 604040  
INSTRUMENT AF/AFOSR /0370/62  
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ARMY RESEARCH OFFICE DURHAM N C  
LIFETIME AND HFS OF THE /555P/ 1P1 STATE OF CADMIUM  
PHYS REV V134 N3A PPA608/A614 MAY 1964  
BY LURIO A  
NOVICK R  
DDC NUMBER 444466  
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EXPERIMENTAL STUDY OF COMPRESSIONAL HYDROMAGNETIC WAVES  
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BY SWANSON D G  
GOULD R W  
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DDC NUMBER 444469  
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CALIFORNIA U BERKELEY  
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BY CARLILE R N  
DDC NUMBER 444471  
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DOMINANT ZERO AND EXCESS PHASE OF A HURWITZ POLYNOMIAL  
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BY PEDERSON D O  
WILSON G H  
DDC NUMBER 444473  
INSTRUMENT AF/AFOSR /0139/63  
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AFOSR 64 1375  
BROOKLYN POLYTECHNIC INST NEW YORK NY  
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BY PAPOULIS A  
DDC NUMBER 604041  
INSTRUMENT AF 49C638>01402  
PROJ/TASK 4751

AFOSR 64 1376  
STANFORD U CALIF  
PLASMA INSTABILITY IN THE WHISTLER MODE CAUSED BY A  
GYRATING ELECTRON STREAM  
PHYS REV V133 N5A PPA1300/A1302 MAR 64  
BY BELL T F  
BUNEMAN O  
DDC NUMBER 444472  
INSTRUMENT AF 49C638>01060  
PROJ/TASK 9768 01

AFOSR 64 1378  
NEW YORK U NEW YORK  
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COMPOSED OF M/OUT/OF/N DECISION GATES  
BY RASHIP M  
DDC NUMBER 60 043  
INSTRUMENT AF/AFOSR /0024/64  
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BY BEAM W R DDC NUMBER 604046  
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A BROUWER TYPE SPACE TO REPLACE THE CONVENTIONAL PHYSICAL CONTINUUM WHEN PARTICLES ARE REGARDED AS DISTINCTION SYSTEMS  
BY BASTIN E W DDC NUMBER 604044  
KILMISTER C W INSTRUMENT AF 61<052>00331  
PROJ/TASK 9769 06

AFOSR 64 1381  
ILLINOIS U URBANA  
ON STRUCTURAL ANALYSIS OF MANY VALUED LOGIC  
BY NA H S H DDC NUMBER 604045  
VON FOERSTER H INSTRUMENT AF/AFOSR /0008/63  
GUNTHER G PROJ/TASK 9769 06

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INSTRUMENT AF/EOAR /0069/62  
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BY PARKER/RHODES A F DDC NUMBER 444446  
INSTRUMENT AF 61<052>00647  
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BY FREEMAN H DDC NUMBER 444464  
GARDER L INSTRUMENT AF/AFOSR /0024/63  
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ILLINOIS U URBANA  
CONSTRAINT ANALYSIS OF MANY DIMENSIONAL RELATIONS  
BY ASHBY W R DDC NUMBER 604042  
INSTRUMENT AF/AFOSR /0007/63  
PROJ/TASK 9769 04

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A FORMAL THEORY OF INDUCTIVE INFERENCE. PART II  
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BY SOLOMONOFF R J DDC NUMBER 444470  
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A GENERALIZATION OF ALGOL  
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BY WIRTH N DDC NUMBER 444461  
INSTRUMENT AF/AFOSR /0156/62  
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AFOSR 64 1391  
NEW YORK U NEW YORK  
A NONLINEAR SUMMATION THRESHOLD DEVICE  
IEEE TRANS ELECTRON COMPUTERS VEC/12 PP914/915 DEC 63  
BY KASZEMAN P DDC NUMBER 444462  
INSTRUMENT AF/AFOSR /0152/62  
PROJ/TASK 9769 02

AFOSR 64 1392  
BUNKER RAMO CORP CANOGA PARK CALIF  
LINGUISTICS, BRAIN RESEARCH AND SPEECH PATHOLOGY  
BY GARVIN P L DDC NUMBER 444465  
INSTRUMENT AF 49<638>01128  
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BY LIBBY P A DDC NUMBER 606074  
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BY CAYREL R INSTRUMENT AF 49<638>00021  
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BY REILLEY C N DDC NUMBER 444450  
MARK H B JR INSTRUMENT AF 49<638>00333  
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AIKENS D A INSTRUMENT AF 49<638>00333  
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BY KOSOWER F M DDC NUMBER 444448  
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J ORG CHEM V28 PP630/638 MAR 1963  
BY KOSOWER E M DDC NUMBER 444447  
COLE W J INSTRUMENT AF 49<638>00282  
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CARY D F  
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AFOSR 64 1402  
CORNELL U ITHACA N Y  
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BY NIXON J DDC NUMBER 444453  
PLANE R A INSTRUMENT AF 49<638>00279  
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CORNELL U ITHACA N Y  
RAMAN SPECTRA OF AQUEOUS SOLUTIONS OF INDIUM SULFATE, NITRATE, AND PERCHLORATE  
J CHEM PHYS V38 N1 PP249/250 1 JAN 63  
BY HESTER R A DDC NUMBER 444454  
PLANE R A INSTRUMENT AF 49<638>00279  
WALRAFEN G E PROJ/TASK 9760

AFOSR 64 1404  
PURDUE U LAFAYETTE IND  
MULTIDENTATE LIGAND KINETICS. IV. COPPER /II/ AND N/ HYDROXYETHYLETHYLENEDIAMINETETRAACETATO/NICKELATE /II/  
INORG CHEM V2 N4 PP678/683 AUG 1963  
BY BYDALEK T J DDC NUMBER 444459  
MARGERUM D W INSTRUMENT AF 49<638>00060  
PROJ/TASK 9763

AFOSR 64 1405  
PURDUE U LAFAYETTE IND  
MULTIDENTATE LIGAND KINETICS. III. THE FORMATION AND DISSOCIATION OF TRIETHYLENETETRAMINONICKEL/II/ AND TETRAETHYLENEDIPENTAMINENICKEL/II/ AND THEIR EXCHANGE WITH RADIONICKEL ION  
INORG CHEM V2 N4 PP667/677 AUG 1963  
BY MARGERUM D W DDC NUMBER 444458  
RORABACHER D B INSTRUMENT AF 49<638>00060  
CLARKE J F G JR PROJ/TASK 9763

AFOSR 64 1406  
PURDUE U LAFAYETTE IND  
MULTIDENTATE LIGAND KINETICS. V. COPPER/II/ AND CYCLOHEXYLENEDIAMINETETRAACETATO/NICKELATE/II/  
INORG CHEM V2 N4 PP683/688 AUG 1963  
BY MARGERUM D W DDC NUMBER 444457  
BYDALEK T J INSTRUMENT AF 49<638>00060  
PROJ/TASK 9763

AFOSR 64 1407  
PURDUE U LAFAYETTE IND  
EXCHANGE REACTIONS OF MULTIDENTATE LIGAND COMPLEXES  
RECORD CHEM PROG V24 N4 PP237/251 DEC 1963  
BY MARGERUM D W DDC NUMBER 444456  
INSTRUMENT AF 49<638>00060  
PROJ/TASK 9763

AFOSR 64 1408  
PURDUE U LAFAYETTE IND  
MULTIDENTATE LIGAND KINETICS. VI. THE EXCHANGE OF ETHYLENEDIAMINETETRAACETATE ION WITH TRIETHYLENETETRAMINENICKEL/II/ AND TETRAETHYLENEDIPENTAMINENICKEL/II/  
INORG CHEM V3 N3 PP382/390 MAR 1964  
BY RORABACHER D B DDC NUMBER 444319  
MARGERUM D W INSTRUMENT AF 49<638>00060  
PROJ/TASK 9763

AFOSR 64 1410  
BROOKLYN POLYTECHNIC INST NEW YORK NY  
PHOTOCHEMICAL STUDIES IN FLASH PHOTOLYSIS. III. PHOTOLYSIS OF ACETONE IN DIFFERENT WAVELENGTH REGIONS.  
J CHEM PHYS V39 N4 PP996/1003 AUG 63  
BY SHILMAN A INSTRUMENT AF 49<638>00772  
MARCUS R A PROJ/TASK 9760 02

AFOSR 64 1412  
MINNESOTA U MINNEAPOLIS  
THE REACTION OF VINYL MERCURIC IODIDE WITH NONHALOGEN ACID  
J AM CHEM SOC V86 PP2435/2440 20 JUN 1964  
BY KREEVOY M M DDC NUMBER 445074  
KRETCHMER R A INSTRUMENT AF 49<638>00711  
PROJ/TASK 9762 02

AFOSR 64 1413  
OREGON U EUGENE  
CATALYTIC HYDROGENATION OF SOME NAPHTHYL ALKENES  
J ORG CHEM V29 PP900/904 APR 1964  
BY KLEMM L H DDC NUMBER 444445  
MANN R INSTRUMENT AF 49<638>00473  
PROJ/TASK 9761

AFOSR 64 1414  
OREGON U EUGENE  
OPTICAL RESOLUTION OF 9/SEC. /BUTYLPHENANTHRENE BY  
MOLECULAR COMPLEXATION CHROMATOGRAPHY  
J CHROMATOGR V14 PP300/302 1964  
BY KLEMM L H DDC NUMBER 444444  
DESAT K B INSTRUMENT AF 49<638>00473  
SPOONER J R JR PROJ/TASK 9761

AFOSR 64 1415  
OREGON U EUGENE  
GAS/SOLID ADSORPTION CHROMATOGRAPHY OF SOME AROMATIC  
HYDROCARBONS AND NITROGEN HETEROCYCLES ON ALUMINA  
J CHROMATOGR V13 PP40/47 1964  
BY KLEMM L H DDC NUMBER 444451  
AIREE S K INSTRUMENT AF 49<638>00473  
PROJ/TASK 9761

AFOSR 64 1416  
JOHNS HOPKINS U BALTIMORE MD  
INFRARED SPECTRA OF SILYLACETYLENE AND SILYLACETYLENE/D3  
J CHEM PHYS V40 N1 PP125/131 1 JAN 1964  
BY REEVES R B DDC NUMBER 444454  
WILDE R E INSTRUMENT AF 49<638>00468  
ROBINSON D W PROJ/TASK 9760

AFOSR 64 1417  
PENNSYLVANIA STATE U UNIVERSITY PARK  
PHYSICAL PROPERTIES OF ISOTOPICALLY SUBSTITUTED FLUIDS,  
FINAL REPORT, JAN 1964  
BY STEELE W A DDC NUMBER 604468  
GRIGOR A INSTRUMENT AF/AFOSR /0027/61  
PROJ/TASK 9760 03

AFOSR 64 1419  
CHICAGO U ILL  
REACTIVE INTERMEDIATES IN CYCLOPROPANE CHEMISTRY, FINAL  
REPORT, DEC 1963  
BY BROWN W G DDC NUMBER 444507  
INSTRUMENT AF/AFOSR /0080/63  
PROJ/TASK 9762 01

AFOSR 64 1434  
INSTITUTO DE INVESTIGACION DE CIENCIAS  
MONTEVIDEO URUGUAY  
NEURONE REGENERATION AND NEUROPHYSIOLOGY, FINAL REPORT,  
JUL 1964  
BY ESTABLE C DDC NUMBER 604470  
INSTRUMENT AF/AFOSR /0313/63  
PROJ/TASK 9777 01

AFOSR 64 1435  
JOHNS HOPKINS U BALTIMORE MD  
SINGLE UNIT STUDIES OF CORTICAL AND SUBCORTICAL FUNCTION IN  
UNRESTRAINED ANIMALS, FINAL REPORT, OCT 1963  
BY MOUNTCASTLE V R DDC NUMBER 604469  
INSTRUMENT AF/AFOSR /0031/62  
PROJ/TASK 9777 01

AFOSR 64 1439  
MICHIGAN U ANN ARBOR MICH  
RESEARCH ON DECISION PROCESSES, FINAL REPORT, JUL 1964  
BY EDWARDS W DDC NUMBER 604488  
INSTRUMENT AF/AFOSR /0192/63  
PROJ/TASK 9778 01

AFOSR 64 1440  
HAWAII U HONOLULU  
PREDICTIVE MODEL FOR INTRA/GROUP NEGOTIATION, FINAL REPORT,  
JUN 1964  
BY BARTOS O J DDC NUMBER 604471  
INSTRUMENT AF/AFOSR /0314/62  
PROJ/TASK 9779 02

AFOSR 64 1441  
CHILE U SANTIAGO  
ROLE OF THE CEREBRAL CORTEX IN CLASSICAL AND INSTRUMENTAL  
CONDITIONED REFLEXES, FINAL REPORT, AUG 1964  
BY MIDDLETON S DDC NUMBER 604477  
INSTRUMENT AF/AFOSR /0318/63  
PROJ/TASK 9777 01

AFOSR 64 1442  
LONDON U COLL ENGLAND  
ANATOMICAL LOCALIZATION OF TARGET LEARNING AND MEMORY,  
FINAL REPORT, JUN 1964  
BY YOUNG J Z DDC NUMBER 604472  
INSTRUMENT AF/EOAR /0002/63  
PROJ/TASK 9777 01

AFOSR 64 1445  
CALIFORNIA U DAVIS  
EXTREMA FOR EIGENVALUES OF VIBRATING SYSTEMS, FINAL REPORT  
BY BANKS D O DDC NUMBER 604473  
INSTRUMENT AF/AFOSR /0082/63  
PROJ/TASK 9749 01

AFOSR 64 1447  
LUND U SWEDEN  
THERMAL STABILITY OF ORGANIC COMPOUNDS, FINAL REPORT, APR  
1964  
BY SUNNER S DDC NUMBER 604474  
INSTRUMENT AF/EOAR /0110/62  
PROJ/TASK 9750 02

AFOSR 64 1448  
RADIATION APPLICATIONS INC LONG ISLAND CITY N Y  
RADIATION INDUCED SOLID PROPELLANT DECOMPOSITION, FINAL  
REPORT, JAN 1964  
BY ODIAN G DDC NUMBER 604475  
ACKER T INSTRUMENT AF 49<638>01125  
PLETZKF T PROJ/TASK 9711 01  
HFNLFY F  
MCALVEY R F III

AFOSR 64 1458  
ROYAL INST OF TECH STOCKHOLM SWEDEN  
POTENTIOMETRIC PURITY CONTROL OF SALT MEDIA FOR EQUILIBRIUM  
STUDIES  
ARKIV KEMI V20 N34 PP417/435 1963  
BY CIAVATTA L INSTRUMENT AF 61<052>00162  
PROJ/TASK 9760

AFOSR 64 1465  
CINCINNATI U OHIO  
THE STRUCTURE OF ORGANOZINC REAGENTS  
J ORG CHEM V28 PP3592/3593 DEC 1963  
BY DESSY R F INSTRUMENT AF 49<638>00824  
COE G R PROJ/TASK 9760 02

AFOSR 64 1466  
MINNESOTA U MINNEAPOLIS  
RESOLVENT OPERATOR FORMULATION OF STATIONARY STATE  
PERTURBATION THEORY  
J CHEM PHYS V40 N7 PP1891/1897 APR 64  
BY YARIS R DDC NUMBER 445021  
INSTRUMENT AF 49<638>00940  
PROJ/TASK 9760 01

AFOSR 64 1467  
CALIFORNIA INST OF TECH PASADENA  
COMMENT ON ABSORPTION AND DISPERSION OF SOUND IN CRITICAL  
MIXTURES  
J CHEM PHYS V40 N5 P1451 1 MAR 64  
BY KENDIG A P DDC NUMBER 445022  
BIGELOW R H INSTRUMENT AF 49<638>01273  
EDMONDS P D PROJ/TASK 9710 03  
PINGS C J

AFOSR 64 1469  
KANSAS STATE U MANHATTAN  
THE CRYSTALLOGRAPHY OF SOLID NITROGEN OXIDES, SODIUM  
HYPONITRITE / POTASSIUM NITRITE, FINAL REPORT, AUG 1964  
BY DRAGSDORF R D DDC NUMBER 604476  
CHANG S C INSTRUMENT AF/AFOSR /0024/61  
HOLLIS R L PROJ/TASK 9710 01

AFOSR 64 1470  
ILLINOIS U URBANA  
ELECTRICAL SPRAYING OF MACROSCOPIC LIQUID PARTICLES  
UNDER PULSED CONDITIONS  
BY CARSON R S DDC NUMBER 604428  
INSTRUMENT AF/AFOSR /0107/63  
PROJ/TASK 9752 01

AFOSR 64 1471  
GENERAL APPLIED SCIENCES LAB INC WESTBURY NY  
REVIEW OF PROBLEMS IN APPLICATION OF SUPERSONIC  
COMBUSTION  
BY FERRI A DDC NUMBER 604441  
INSTRUMENT AF 49<638>00991  
PROJ/TASK 9711 01

AFOSR 64 1472  
GENERAL APPLIED SCIENCES LAB INC WESTBURY NY  
AN EXPERIMENTAL AND ANALYTICAL INVESTIGATION OF IGNITION  
AND AXI/SYMMETRIC TURBULENT FLAME PROPAGATION IN HYDROGEN  
AIR MIXTURES AT SUPERSONIC SPEEDS  
BY TAMAGNO J DDC NUMBER 604429  
TRENTACOSTE N INSTRUMENT AF 49<638>00991  
PROJ/TASK 9711 01

AFOSR 64 1473  
GENERAL APPLIED SCIENCES LAB INC WESTBURY NY  
LINEARIZED APPROXIMATIONS TO THE BOUNDARY LAYER EQUATIONS  
BY SCHEITZ J A DDC NUMBER 604430  
JANNONE J INSTRUMENT AF 49<638>00991  
PROJ/TASK 9711 01

AFOSR 64 1474  
ILLINOIS U URBANA  
THE STABILITY OF ELECTRIFIED LIQUID SURFACES  
BY SCHNEIDER J M DDC NUMBER 604431  
INSTRUMENT AF/AFOSR /0107/64  
PROJ/TASK 9752 01

AFOSR 64 1475  
TEXAS U AUSTIN  
CYCLOTRON RESONANCE IN SLIGHTLY IONIZED GASES  
J CHEM PHYS V39 N7 PP1653/1661 1 OCT 1963  
BY FEHSENFELD F C DDC NUMBER 445170  
INSTRUMENT AF/AFOSR /0270/62  
PROJ/TASK 9750 02

AFOSR 64 1476  
TEXAS U AUSTIN  
SPECTRA EXCITED IN A HELIUM AFTERGLOW  
J CHEM PHYS V40 N3 PP701/712 1 FEB 1964  
BY COLLINS C B DDC NUMBER 445173  
ROBERTSON W W INSTRUMENT AF/AFOSR /0273/63  
PROJ/TASK 9750 02

AFOSR 64 1477  
TEXAS U AUSTIN  
HELIUM AFTERGLOW. II. MOLECULAR SPECTRUM  
J CHEM PHYS V40 N8 PP2208/2211 APR 64  
BY COLLINS C B DDC NUMBER 445175  
ROBERTSON W W INSTRUMENT AF/AFOSR /0273/63  
PROJ/TASK 9750 02

AFOSR 64 1478  
ILLINOIS U URBANA  
PARAMETERS INFLUENCING THE CHARGE TO MASS RATIO OF.  
ELECTRICALLY SPRAYED LIQUID PARTICLES  
BY HOGAN J J DDC NUMBER 604583 /0107/63  
INSTRUMENT AF/AFOSR  
PROJ/TASK 9752 01

AFOSR 64 1479  
PURDUE U LAFAYETTE IND  
CONTINUOUS MEASUREMENT OF THE BURNING RATES OF SOLID  
ROCKET PROPELLANTS  
BY OSBORN J R DDC NUMBER 601648 /0207/63  
BURICK R J INSTRUMENT AF/AFOSR  
PROJ/TASK 9751 01

AFOSR 64 1480  
PURDUE U LAFAYETTE IND  
ANALYSIS OF A SERVO SYSTEM FOR CONTINUOUS MEASUREMENT  
OF THE BURNING RATE OF A SOLID PROPELLANT  
BY OSBORN J R DDC NUMBER 604556 /0207/63  
PANELLA R F INSTRUMENT AF/AFOSR  
PROJ/TASK 9751 01

AFOSR 64 1481  
TEXAS U AUSTIN  
SPECTRA EXCITED IN AN ARGON AFTERGLOW  
J CHEM PHYS V40 N9 PP2619/2626 MAY 64  
BY PRINCE J F DDC NUMBER 445167 /0273/63  
COLLINS C B INSTRUMENT AF/AFOSR  
ROBERTSON W W PROJ/TASK 9750 02

AFOSR 64 1482  
TEXAS U AUSTIN  
HELIUM AFTERFLOW I. ATOMIC SPECTRUM  
J CHEM PHYS V40 N8 PP2202/2208 APR 64  
BY COLLINS C B DDC NUMBER 445168 /0273/63  
ROBERTSON W W INSTRUMENT AF/AFOSR  
PROJ/TASK 9750 02

AFOSR 64 1483  
TEXAS U AUSTIN  
SPECTRAL EMISSION OF THE HELIUM AFTERGLOW  
J CHEM PHYS V40 N10 PP2909/2914 MAY 1964  
BY NILES F F DDC NUMBER 445169 /0273/63  
ROBERTSON W W INSTRUMENT AF/AFOSR  
PROJ/TASK 9750 02

AFOSR 64 1484  
WISCONSIN U MADISON  
A NOTE ON THE STABILITY OF PEER JUDGMENTS IN INDEPENDENT  
SITUATIONS  
J PSYCHOL STUDIES V14 N1 PP45/47 1963  
BY BORGATTA F F DDC NUMBER 445171 /0016/62  
SPERLING R C INSTRUMENT AF/AFOSR  
PROJ/TASK 9778 02

AFOSR 64 1485  
WISCONSIN U MADISON  
A NEW SYSTEMATIC INTERACTION OBSERVATION SYSTEM / BEHAVIOR  
SCORES SYSTEM / BSS SYSTEM/  
J PSYCHOL STUDIES V14 N1 PP24/44 1963  
BY BORGATTA F F DDC NUMBER 445172 /0016/62  
INSTRUMENT AF/AFOSR  
PROJ/TASK 9778 02

AFOSR 64 1486  
HEBREW U JERUSALEM ISRAEL  
CORRELATES OF AMBIVALENCE, RISK / TAKING AND RIGIDITY  
BY MINKOWICH A DDC NUMBER 604585 /0062/63  
INSTRUMENT AF/AFOSR  
PROJ/TASK 9778 01

AFOSR 64 1489  
PITTSBURGH U PA  
SOME N / BUTYL AND PHENYL PHOSPHONIUM SALTS  
J CHEM ENG DATA V9 N2 P255 APR 64  
BY WITSCHARD G DDC NUMBER 446142 /0048/62  
GRIFFIN C F INSTRUMENT AF/AFOSR  
PROJ/TASK 9762 01

AFOSR 64 1490  
COLUMBIA U NEW YORK N Y  
OPTICAL PUMPING AND CHEMICAL REACTIONS  
J CHEM PHYS V40 N6 PP1678/1683 MAR 1964  
BY MCNEAL R J DDC NUMBER 446351 /0228/62  
BERNHEIM R A INSTRUMENT AF/AFOSR  
RERSOHN R PROJ/TASK 9760 02  
DORFMAN M

AFOSR 64 1491  
COLUMBIA U NEW YORK N Y  
SPIN RELAXATION OF OPTICALLY PUMPED RUBIDIUM ATOMS IN  
MOLECULAR BUFFER GASES  
J CHEM PHYS V40 N4 PP1089/1098 FEB 1964  
BY MCNEAL R J DDC NUMBER 446143 /0228/62  
INSTRUMENT AF/AFOSR  
PROJ/TASK 9760 02

AFOSR 64 1492  
STANFORD U CALIF  
CONFIGURATION OF THE POLY- / DIMETHYLSILOXANE / CHAIN.  
I. THE TEMPERATURE COEFFICIENT OF THE UNPERTURBED  
EXTENSION. II. UNPERTURBED DIMENSIONS AND SPECIFIC SOLVENT  
EFFECTS III. CORRELATION OF THEORY AND EXPERIMENT  
J AM CHEM SOC V86 PP138/152 JAN 1964  
BY MARK J E DDC NUMBER 445929 /0131/62  
FLORY P J INSTRUMENT AF/AFOSR  
CRESCENZI V PROJ/TASK 9760 03

AFOSR 64 1493  
STANFORD U CALIF  
MEAN SQUARE MOMENTS OF CHAIN MOLECULES  
PROC NAT ACAD SCI V51 N6 PP1060/1067 JUN 1964  
BY FLORY P J DDC NUMBER 446119 /0131/62  
INSTRUMENT AF/AFOSR  
PROJ/TASK 9760 03

AFOSR 64 1494  
STANFORD U CALIF  
THE TEMPERATURE COEFFICIENT OF THE POLYDIMETHYLSILOXANE  
CHAIN CONFIGURATION FROM SWELLING EQUILIBRIUM /  
MEASUREMENTS  
J PHYS CHEM V68 N5 PP1092/1095 MAY 1964  
BY MARK J E DDC NUMBER 445931 /0131/62  
INSTRUMENT AF/AFOSR  
PROJ/TASK 9760 03

AFOSR 64 1495  
INDIANA U BLOOMINGTON  
DIAMAGNETIC NUCLEAR SHIELDING CONSTANTS FOR NEUTRAL ATOMS  
J CHEM PHYS V40 N11 PP3447/3448 JUN 1964  
BY BONHAM R A DDC NUMBER 446140 /0322/62  
STRAND T G INSTRUMENT AF/AFOSR  
PROJ/TASK 9760 02

AFOSR 64 1496  
INDIANA U BLOOMINGTON  
THE THEORY OF ELECTRON SCATTERING FROM MOLECULES. I.  
THEORETICAL DEVELOPMENT  
J PHYS CHEM V67 PP1472/1474 JUL 1963  
BY IJIMA T DDC NUMBER 446126 /0322/62  
BONHAM R A INSTRUMENT AF/AFOSR  
ANDO T PROJ/TASK 9760 02

AFOSR 64 1497  
INDIANA U BLOOMINGTON  
THE THEORY OF ELECTRON SCATTERING FROM MOLECULES II.  
MOLECULAR HYDROGEN  
J PHYS CHEM V67 PP2260/2272 NOV 1963  
BY BONHAM R A DDC NUMBER 446125 /0322/62  
IJIMA T INSTRUMENT AF/AFOSR  
PROJ/TASK 9760 02

AFOSR 64 1498  
INDIANA U BLOOMINGTON  
MODIFICATION TO THE NEWTON/RAPHSON METHOD FOR THE FITTING  
OF NONLINEAR FUNCTIONS BY LEAST SQUARES  
J CHEM PHYS V39 N5 PP1307/1310 SEP 63  
BY STRAND T G DDC NUMBER 446358 /0322/62  
KOHLE D A INSTRUMENT AF/AFOSR  
BONHAM R A PROJ/TASK 9760 02

AFOSR 64 1499  
INDIANA U BLOOMINGTON  
ANALYTICAL EXPRESSIONS FOR POTENTIALS OF NEUTRAL THOMAS /  
FERMI / DIRAC ATOMS AND FOR THE CORRESPONDING ATOMIC  
SCATTERING FACTORS FOR X-RAYS AND ELECTRONS  
J CHEM PHYS V39 N9 PP2200/2204 NOV 63  
BY BONHAM R A DDC NUMBER 446362 /0322/62  
STRAND T G INSTRUMENT AF/AFOSR  
PROJ/TASK 9760 02

AFOSR 64 1500  
INDIANA U BLOOMINGTON  
X-RAY SCATTERING FACTOR OF A HYDROGEN ATOM IN A HYDROGEN  
MOLECULE  
ACTA CRYST V16 PT10 PP1061/1062 OCT 1963  
BY IJIMA T DDC NUMBER 446363 /0322/62  
BONHAM R A INSTRUMENT AF/AFOSR  
PROJ/TASK 9760 02

AFOSR 64 1501  
INDIANA U BLOOMINGTON  
THEORY OF THE EFFECT OF TEMPERATURE ON THE ELECTRON  
DIFFRACTION PATTERNS OF DIATOMIC MOLECULES  
J CHEM PHYS V38 N10 PP2319/2325 MAY 1963  
BY BONHAM R A DDC NUMBER 446360 /0322/62  
PEACHER J L INSTRUMENT AF/AFOSR  
PROJ/TASK 9760 02

AFOSR 64 1502  
MINNESOTA U MINNEAPOLIS  
SOLVOLYTIC DEOXYMERIZATION CATALYZED BY IODIDE ION  
J ORG CHEM V29 PP1639/1640 1964  
BY KREEVOY MM DDC NUMBER 446364 /0016/63  
TURNER M A INSTRUMENT AF/AFOSR  
PROJ/TASK 9762 02

AFOSR 64 1503  
VICTORIA U WELLINGTON NEW ZEALAND  
SURFACE ADSORPTION OF 57CO / 57FE ON IRON/II/ AND COBALT/II/  
OXALATES.  
J CHEM SOC V130 PP653/658 FEB 64  
BY DUNCAN J F DDC NUMBER 446357 /0027/63  
BRADY P R INSTRUMENT AF/AFOSR  
PROJ/TASK 9710 03

AFOSR 64 1504  
IOWA STATE U OF SCIENCE AND TECH AMES  
NATURE OF THE POLAR EFFECT IN REACTIONS OF ATOMS AND  
RADICALS. II. REACTIONS OF CHLORINE ATOMS AND PEROXY  
RADICALS  
J AM CHEM SOC V86 PP2357/2364 JUN 1964  
BY RUSSELL G A DDC NUMBER 446120 /0038/63  
WILLIAMSON R C JR INSTRUMENT AF/AFOSR  
PROJ/TASK 9762 01

AFOSR 64 1505  
IOWA STATE U OF SCIENCE AND TECH AMES  
DIRECTIVE EFFECTS IN ALIPHATIC SUBSTITUTIONS. XXV.  
REACTIVITY OF ARAKANES, ARALENES, AND BENZYLIC ETHERS  
TOWARD PEROXY RADICALS  
J AM CHEM SOC V86 PP2364/2367 JUN 1964  
BY RUSSELL G A DDC NUMBER 446120 /0038/63  
WILLIAMSON R C JR INSTRUMENT AF/AFOSR  
PROJ/TASK 9762 01

AFOSR 64 1506  
NORTH DAKOTA STATE U FARGO  
THE ANODIC OXIDATION OF CHLORIDE TO PERCHLORATE ON A SEMI /  
MICRO SCALE  
J INORG NUCL CHEM V26 PP663/665 1964  
BY BILLIGMEIER J E DDC NUMBER 446368 /0065/63  
MCDONALD R L INSTRUMENT AF/AFOSR  
PROJ/TASK 9710 02



AFOSR 64 1507  
AEROJET-GENERAL CORP AZUSA CALIF  
SPECTRA OF MATRIX ISOLATED WATER IN THE PURE ROTATION  
REGION  
J CHEM PHYS V39 N12 PP3430/3432 15 DEC 1963  
BY ROBINSON D W DDC NUMBER 446124  
INSTRUMENT AF/AFOSR /0093/63  
PROJ/TASK 9752

AFOSR 64 1508  
OREGON STATE U CORVALLIS  
MECHANISMS OF REACTIONS OF SULFINIC ACIDS. VI. THE  
MECHANISM OF THE DISULFIDE / SULFINIC ACID REACTION  
J AM CHEM SOC V86 PP2270/2278 JUN 1964  
BY KICE J L DDC NUMBER 446141  
INSTRUMENT AF/AFOSR /0106/63  
PROJ/TASK 9762 03

AFOSR 64 1509  
OKLAHOMA STATE U STILLWATER  
NUCLEOPHILIC DISPLACEMENT REACTIONS ON ORGANOPHOSPHORUS  
ESTERS BY GRIGNARD REAGENTS. I  
J AM CHEM SOC V86 PP1787/1790 MAY 1964  
BY BERLIN K D DDC NUMBER 446110  
INSTRUMENT AF/AFOSR /0132/63  
STONE K L PROJ/TASK 9762 02

AFOSR 64 1510  
OKLAHOMA STATE U STILLWATER  
UNSYMMETRICAL TERTIARY PHOSPHINE OXIDES FROM DIPHENYL  
PHENYLPHOSPHONATE / A CONVENIENT SYNTHESIS  
CHEM IND /LONDON/ PP974/975 6 JUN 1964  
BY BERLIN K D DDC NUMBER 446118  
INSTRUMENT AF/AFOSR /0132/63  
NAGABHUSHANAM M PROJ/TASK 9762 02

AFOSR 64 1511  
CORNELL U ITHACA N Y  
THE CATION RADICAL OF TETRAKIS(DIMETHYLAMINO) ETHYLENE  
J AM CHEM SOC V86 PP2101/2105 JUN 1964  
BY KUWATA K DDC NUMBER 446115  
GESKE D H INSTRUMENT AF/AFOSR /0166/63  
PROJ/TASK 9762 03

AFOSR 64 1512  
YALE U NEW HAVEN CONN  
ATOMIC COLLISION PROCESSES. RADIATIVE CAPTURE OF ELECTRONS  
BY HALOGEN ATOMS  
PROC INTERN CONF PHYS ELECTRON ATOMIC COLLISIONS 3RD  
LONDON 22/26 JULY 1963 PP543/548  
BY BERRY R S DDC NUMBER 446114  
DAVID C W INSTRUMENT AF/AFOSR /0183/63  
PROJ/TASK 9760 02

AFOSR 64 1513  
PITTSBURGH U PA  
MAGNETIC CHARACTERISTICS OF LAVES PHASES CONTAINING  
LANTHANIDE METALS COMBINED WITH NICKEL  
J APPL PHYS V34 N4 PT2 PP1356/1357 APR 63  
BY SKRABEK E A DDC NUMBER 446361  
WALLACE W F INSTRUMENT AF/AFOSR /0187/63  
PROJ/TASK 9710 02

AFOSR 64 1514  
PITTSBURGH U PA  
MAGNETIC PROPERTIES OF GDFE2 AND DYFE2  
J CHEM PHYS V40 N4 PP1167/1168 FEB 64  
BY MANSMANN M DDC NUMBER 446359  
WALLACE W F INSTRUMENT AF/AFOSR /0187/63  
PROJ/TASK 9710 02

AFOSR 64 1515  
KANSAS U LAWRENCE  
POLAROGRAPHIC EVALUATION OF THE FORMATION CONSTANTS OF  
AQUO / COPPER(II) COMPLEXES IN ACETONE  
INORG CHEM V3 N5 PP661/663 MAY 1964  
BY NELSON I V DDC NUMBER 446370  
IWAMOTO R T INSTRUMENT AF/AFOSR /0220/63  
PROJ/TASK 9710 03

AFOSR 64 1516  
KANSAS U LAWRENCE  
VOLTAMMETRIC EVALUATION OF THE STABILITY OF TRICHLORIDE,  
TRIBROMIDE, AND TRIIODIDE IONS IN NITROMETHANE, ACETONE  
AND ACETONITRILE  
J ELECTROANAL CHEM V7 PP218/221 1964  
BY NELSON I V DDC NUMBER 446374  
IWAMOTO R T INSTRUMENT AF/AFOSR /0220/63  
PROJ/TASK 9710 03

AFOSR 64 1517  
PRINCETON U N J  
INFRARED SPECTROSCOPIC STUDY OF ISONITRILE DERIVATIVES  
OF THE IRON CARBONYL HALIDES  
INORG CHEM V3 N4 PP584/589 APR 1964  
BY TAYLOR R C DDC NUMBER 446135  
HORROCKS W D JR INSTRUMENT AF/AFOSR /0242/63  
PROJ/TASK 9710 01

AFOSR 64 1518  
CANTERBURY U CHRISTCHURCH NEW ZEALAND  
PHOTOMETRIC STUDY OF THE REACTION OF IODINE WITH ACTIVE  
NITROGEN  
J PHYS CHEM V68 N2 PP362/367 FEB 1964  
BY FREEMAN C G DDC NUMBER 446348  
PHILLIPS L F INSTRUMENT AF/AFOSR /0264/63  
PROJ/TASK 9760 02

AFOSR 64 1519  
NEW YORK STATE U OF RESEARCH FOUNDATION BUFFALO  
DIELECTRIC CONSTANT OF HYDROGEN BONDED LIQUIDS. III.  
SUPERHEATED ALCOHOLS  
J CHEM PHYS V40 N10 PP3058/3066 MAY 64  
BY DANNHAUSER W DDC NUMBER 446369  
BAHE L W INSTRUMENT AF/AFOSR /0271/63  
PROJ/TASK 9760 03

AFOSR 64 1520  
INDIANA U BLOOMINGTON  
THE NATURE OF THE TWO ELECTRON CHEMICAL BOND. III.  
NATURAL ORBITALS FOR H2  
REV MOD PHYS V35 N3 PP624/629 JUL 1963  
BY HAGSTROM S DDC NUMBER 445930  
SHULL H INSTRUMENT AF/AFOSR /0362/63  
PROJ/TASK 9760 01

AFOSR 64 1521  
INDIANA U BLOOMINGTON  
ELECTRON PAIRS IN THE BERYLLIUM ATOM  
J PHYS CHEM V66 PP2281/2283 DEC 1962  
BY ALLEN T L DDC NUMBER 445974  
SHULL H INSTRUMENT AF/AFOSR /0362/63  
PROJ/TASK 9760 01

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INDIANA U BLOOMINGTON  
THE NATURE OF THE TWO ELECTRON CHEMICAL BOND. VI. NATURAL  
ORBITAL ANALYSIS FOR HEH POSITIVE  
MOLECULAR ORBITALS IN CHEMISTRY PHYSICS AND BIOLOGY  
ACADEMIC PRESS INC NEW YORK PP227/239 1964  
BY ANEX B G DDC NUMBER 446371  
SHULL H INSTRUMENT AF/AFOSR /0362/63  
PROJ/TASK 9760 01

AFOSR 64 1523  
INDIANA U BLOOMINGTON  
CONFIGURATION INTERACTION STUDY OF THE LITHIUM HYDRIDE  
MOLECULE  
J CHEM PHYS V36 N5 PP1361/1370 MAR 62  
BY ERBBING D DDC NUMBER 446372  
INSTRUMENT AF/AFOSR /0362/63  
PROJ/TASK 9760 01

AFOSR 64 1524  
INDIANA U BLOOMINGTON  
GROUND STATE OF THE HEH POSITIVE MOLECULE ION  
J CHEM PHYS V38 N7 PP1651/1662 APR 1963  
BY ANEX B G DDC NUMBER 446373  
INSTRUMENT AF/AFOSR /0362/63  
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AFOSR 64 1525  
CHICAGO U ILL  
ON THE KINETIC THEORY OF DENSE FLUIDS. XVI. THE IDEAL  
IONIC MELT  
J CHEM PHYS V40 N5 PP1347/1362 MAR 64  
BY BERNE B DDC NUMBER 446400  
RICE S A INSTRUMENT AF/AFOSR /0369/63  
PROJ/TASK 9760 01

AFOSR 64 1526  
CHICAGO U ILL  
PERTURBATION CALCULATION OF MIXED PAIR CORRELATION  
FUNCTIONS  
PHYS FLUIDS V7 N3 PP402/406 MAR 64  
BY LOWRY B A DDC NUMBER 446401  
DAVIS H T INSTRUMENT AF/AFOSR /0369/63  
RICE S A PROJ/TASK 9760 01

AFOSR 64 1527  
CHICAGO U ILL  
ROLE OF HARD CORE COLLISIONS WITH LARGE ANGLE DEFLECTIONS  
IN THE KINETIC THEORY OF DENSE FLUIDS  
J CHEM PHYS V40 N6 PP1582/1589 MAR 64  
BY BERNE B DDC NUMBER 446347  
GRAY P INSTRUMENT AF/AFOSR /0369/63  
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AFOSR 64 1528  
PENNSYLVANIA U PHILADELPHIA  
ISOTOPE EFFECTS FOR SOLVOLYSIS OF T / BUTYL CHLORIDE AND  
T / BUTYL / D9 CHLORIDE IN SOLVENT MIXTURES OF CONSTANT  
IONIZING POWER  
J AM CHEM SOC V86 N9 P1900 MAY 1964  
BY THORNTON E R DDC NUMBER 446402  
FRISONE G J INSTRUMENT AF/AFOSR /0431/63  
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AFOSR 64 1529  
MCMASTER U HAMILTON ONTARIO CANADA  
CATIONS AND OXY CATIONS OF IODINE. II. SOLUTIONS OF  
IODOSYL SULFATE, IODINE DIOXIDE, AND IODIC ACID // IODINE  
MIXTURES IN SULFURIC ACID AND DILUTE OLEUM  
INORG CHEM V3 N7 PP972/977 JUL 1964  
BY GILLESPIE R J DDC NUMBER 445 56  
SENIOR J B INSTRUMENT AF/AFOSR /0516/64  
PROJ/TASK 9710 01

AFOSR 64 1530  
MCMASTER U HAMILTON ONTARIO CANADA  
THE STEREOCHEMISTRY OF FIVE / CO/ORDINATION. PART I.  
NON / TRANSITION ELEMENTS  
J CHEM SOC PP4672/4678 OCT 1963  
BY GILLESPIE R J DDC NUMBER 446403  
INSTRUMENT AF/AFOSR /0516/64  
PROJ/TASK 9710 01

AFOSR 64 1531  
MCMASTER U HAMILTON ONTARIO CANADA  
THE STEREOCHEMISTRY OF FIVE / CO/ORDINATION. PART II.  
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J CHEM SOC PP4679/4685 OCT 63  
BY GILLESPIE R J DDC NUMBER 447665  
INSTRUMENT AF/AFOSR /0516/64  
PROJ/TASK 9710 01

AFOSR 64 1532  
MCMASTER U HAMILTON ONTARIO CANADA  
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PROC CHEM SOC P278 SEPT 63  
BY GILLESPIE R J DDC NUMBER 446138  
QUAIL J W INSTRUMENT AF/AFOSR /0516/64  
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AFOSR 64 1513  
NEW YORK U NEW YORK  
VALIDITY OF RATE FACTORS IN FREE RADICAL AROMATIC  
SUBSTITUTION  
J AM CHEM SOC V84 PP4152/4153 NOV 1962  
BY MORRISON R T DDC NUMBER 446137  
CAZES J INSTRUMENT AF/AFOSR /0519/64  
SAMKOFF N PROJ/TASK 9762 01  
HOWE C A

AFOSR 64 1514  
GEORGIA U ATHENS  
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PEROXIDE IN THE PRESENCE OF EXCESS STABLE RADICALS. THE  
SIMULTANEOUS DETERMINATION OF KINETICS AND FREE RADICAL  
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RADICAL INITIATORS  
J AM CHEM SOC V86 PP914/918 MAR 1964  
BY LAMB R C DDC NUMBER 446136  
PACIFICI J G INSTRUMENT AF/AFOSR /0543/64  
PROJ/TASK 9762 01

AFOSR 64 1515  
MELLON INST OF INDUSTRIAL RESEARCH PITTSBURGH PA  
NEW TYPES OF ORGANOSULFUR DERIVATIVES OF METAL CARBONYLS  
J AM CHEM SOC V86 N6 PP1267/1268 MAR 1964  
BY KING R B DDC NUMBER 446352  
BISNETTE M B INSTRUMENT AF/AFOSR /0580/64  
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AFOSR 64 1517  
INDIANA U BLOOMINGTON  
ELECTRON DIFFRACTION DETERMINATION OF THE MOLECULAR  
STRUCTURE OF THE BUTYL HALIDES. V. THE STRUCTURE AND  
CONFORMATIONAL ANALYSIS OF ISOBUTYL CHLORIDE  
J AM CHEM SOC V86 PP1286/1288 5 APR 1964  
BY PAULI G H DDC NUMBER 446127  
MOMANY F A INSTRUMENT AF/AFOSR /0602/64  
BONHAM R A PROJ/TASK 9760 02

AFOSR 64 1518  
INDIANA U BLOOMINGTON  
ANALYTICAL EXPRESSIONS FOR THE HARTREE / FOCK POTENTIAL  
OF NEUTRAL ATOMS AND FOR THE CORRESPONDING SCATTERING  
FACTORS FOR X-RAYS AND ELECTRONS  
J CHEM PHYS V40 N6 PP1686/1691 MAR 64  
BY STRAND T G DDC NUMBER 446132  
BONHAM R A INSTRUMENT AF/AFOSR /0602/64  
PROJ/TASK 9760 02

AFOSR 64 1519  
INDIANA U BLOOMINGTON  
ON THE CALCULATION OF MULTICENTER TWO ELECTRON REPULSION  
INTEGRALS INVOLVING SLATER FUNCTIONS  
J CHEM PHYS V40 N10 PP3083/3086 15 MAY 1964  
BY BONHAM R A DDC NUMBER 446133  
PEACHER J L INSTRUMENT AF/AFOSR /0602/64  
COX H L JR PROJ/TASK 9760 02

AFOSR 64 1540  
INDIANA U BLOOMINGTON  
CALCULATION OF ELECTRON SCATTERING FACTORS I.  
NONRELATIVISTIC THEORY  
J CHEM PHYS V40 N5 PP1396/1401 1 MAR 64  
BY KARL J DDC NUMBER 446131  
BONHAM R A INSTRUMENT AF/AFOSR /0602/64  
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AFOSR 64 1541  
WISCONSIN U MADISON  
TRIMETHYLAZIDO COMPOUNDS OF GROUP IVA ELEMENTS  
INORG CHEM V3 N6 PP889/893 JUN 1964  
BY THAYER J S DDC NUMBER 446134  
WEST R INSTRUMENT AF/AFOSR /0623/64  
PROJ/TASK 9762 02

AFOSR 64 1542  
JOHNS HOPKINS U BALTIMORE MD  
RARE GAS ION REACTIONS WITH AMMONIA  
J AM CHEM SOC V86 PP1683/1685 MAY 1964  
BY HERTEL G R DDC NUMBER 446349  
KOSKI W S INSTRUMENT AF 49<638>00481  
PROJ/TASK 9762 03

AFOSR 64 1543  
JOHNS HOPKINS U BALTIMORE MD  
GAS PHASE REACTIONS BETWEEN CARBON TETRACHLORIDE AND MASS  
ANALYZED IONS OF NITROGEN BETWEEN 3 AND 200 E. V.  
J AM CHEM SOC V86 PP788/793 MAR 1964  
BY WEINER E R DDC NUMBER 446123  
HERTEL G R INSTRUMENT AF 49<638>00481  
KOSKI W S PROJ/TASK 9762 03

AFOSR 64 1544  
SYRACUSE U N Y  
THE EFFECT OF SOLVENT AND TEMPERATURE VARIATION ON THE  
VIBRATION FREQUENCY OF THE CARBONYL AND NITRILE BONDS  
ADVANCES IN MOLECULAR SPECTROSCOPY PERGAMON PRESS NEW YORK  
1962  
BY FISHMAN E DDC NUMBER 446350  
KRASCILLA N INSTRUMENT AF 49<638>00003  
PROJ/TASK 9760

AFOSR 64 1546  
MELLON INST OF INDUSTRIAL RESEARCH PITTSBURGH PA  
ON THE TWO STATE MECHANISM FOR HOMOGENEOUS IONIC  
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J POLYMER SCI PTC N4 PP345/360 1964  
BY COLEMAN B D DDC NUMBER 446128  
FOX T G INSTRUMENT AF 49<638>00541  
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AFOSR 64 1547  
WASHINGTON U SEATTLE  
INFRARED SPECTRA OF CRYSTALLINE C2H2, C2HD, AND C2D2  
J CHEM PHYS V40 N7 PP2010/2017 APR 64  
BY BOTTGER G L DDC NUMBER 446121  
EGGERS D F JR INSTRUMENT AF 49<638>00797  
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AFOSR 64 1548  
WASHINGTON U SEATTLE  
INFRARED SPECTRUM OF CARBON DIOXIDE, ENRICHED IN OXYGEN 18  
J CHEM PHYS V40 N4 PP990/1000 FEB 1964  
BY BERNEY C V DDC NUMBER 446130  
EGGERS D F JR INSTRUMENT AF 49<638>00797  
PROJ/TASK 9710 03

AFOSR 64 1549  
CHICAGO U ILL  
PROBES FOR HIGH TEMPERATURE MAGNETIC RESONANCE  
REV SCI INSTR V35 N6 PP680/682 JUN 1964  
BY HAFNER S DDC NUMBER 446129  
NACHTRIES N H INSTRUMENT AF 49<638>01076  
PROJ/TASK 9710 02

AFOSR 64 1550  
CHICAGO U ILL  
NUCLEAR MAGNETIC RESONANCE IN MOLTEN SALTS. I. CHEMICAL  
SHIFT OF CRYSTALLINE AND MOLTEN THALLIUM SALTS  
J CHEM PHYS V40 N10 PP2891 2898 MAY 1964  
BY HAFNER S DDC NUMBER 446111  
NACHTRIEB N H INSTRUMENT AF 49<638>01076  
PROJ/TASK 9710 02

AFOSR 64 1551  
UPPSALA U SWEDEN  
THE CRYSTAL STRUCTURES OF THE ADDUCTS SBCL5.POCL3.SBCL5.  
CH3/ 3PO AND NBCL5.POCL3  
ACTA CHEM SCAND V17 N2 PP353/361 1963  
BY BRANDEN C/I DDC NUMBER 446116  
LINDQVIST I INSTRUMENT AF 61<052>00043  
PROJ/TASK 9760

AFOSR 64 1552  
UPPSALA U SWEDEN  
THE CRYSTAL STRUCTURE OF 2HGCL2. /C2H5/2S  
ARKIV KEMI V22 N5 PP83/91 JAN 1964  
BY BRANDEN C/I DDC NUMBER 446112  
INSTRUMENT AF 61<052>00043  
PROJ/TASK 9760

AFOSR 64 1553  
UPPSALA U SWEDEN  
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ACTA CHEM SCAND V17 N5 PP1363/1374 1963  
BY BRANDEN C/I DDC NUMBER 446113  
INSTRUMENT AF 61<052>00043  
PROJ/TASK 9760

AFOSR 64 1554  
LONDON U COLL ENGLAND  
MECHANISM OF BENZIDINE AND SEMIDINE REARRANGEMENTS. PART  
X. SUBSTRATE ISOTOPE EFFECTS ON KINETICS AND PRODUCTS OF  
ACID REARRANGEMENT OF THE HYDRAZOBENZENES  
J CHEM SOC PP3308/3313 SEP 1962  
BY BANTHORPE D V DDC NUMBER 446117  
HUGHES E D INSTRUMENT AF 61<052>00066

AFOSR 64 1555  
ROYAL INST OF TECH STOCKHOLM SWEDEN  
ON THE DETERMINATION OF THE FORMATION CONSTANTS OF GEO2  
OH/2 ION USING A HYDROGEN ELECTRODE. MEASUREMENTS IN 3M  
2NA/CL/ MEDIUM  
ACTA CHEM SCAND V17 N3 PP590 596 1963  
BY INGRI N DDC NUMBER 446139  
SCHORSCH G INSTRUMENT AF 61<052>00162  
PROJ/TASK 9760

AFOSR 64 1557  
ARMY RESEARCH OFFICE DURHAM N C  
A PERFORMANCE MEASURE FOR GAME PLAYING PROGRAMS  
BY MANNING E G INSTRUMENT DA /28/043/AMC/00073  
PROJ/TASK 4751

AFOSR 64 1558  
ARMY RESEARCH OFFICE DURHAM N C  
SYNTHESIS OF PROBABILISTIC COMMUNICATION NETS  
BY BERNARD H M INSTRUMENT DA /28/043/AMC/00073  
PROJ/TASK 4751

AFOSR 64 1559  
ARMY RESEARCH OFFICE DURHAM N C  
TIME OPTIMAL CONTROL OF NON/LINEAR SAMPLED / DATA SYSTEMS  
BY WIN S M INSTRUMENT DA /28/043/AMC/00073  
PROJ/TASK 4751

AFOSR 64 1560  
ARMY RESEARCH OFFICE DURHAM N C  
SOME APPLICATIONS OF LINEAR GRAPHS  
BY CHEN W/K INSTRUMENT DA /28/043/AMC/00073  
PROJ/TASK 4751

AFOSR 64 1561  
ARMY RESEARCH OFFICE DURHAM N C  
SENSITIVITY CONSIDERATIONS IN OPTIMAL SYSTEM DESIGN  
BY ROHRER R A INSTRUMENT DA /28/043/AMC/00073  
SOBRAL M JR PROJ/TASK 4751

AFOSR 64 1562  
ARMY RESEARCH OFFICE DURHAM N C  
ON QUASI / LINEAR SEQUENTIAL MACHINES  
BY CHANG H Y INSTRUMENT DA /28/043/AMC/00073  
PROJ/TASK 4751

AFOSR 64 1513  
NEW YORK U NEW YORK  
VALIDITY OF RATE FACTORS IN FREE RADICAL AROMATIC  
SUBSTITUTION  
J AM CHEM SOC V84 PP4152/4153 NOV 1962  
BY MORRISON R T DDC NUMBER 446137  
CAZES J INSTRUMENT AF/AFOSR /0519/64  
SAMKOFF N PROJ/TASK 9762 01  
HOWE C A

AFOSR 64 1514  
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SIMULTANEOUS DETERMINATION OF KINETICS AND FREE RADICAL  
EFFICIENCIES IN THE THERMAL DECOMPOSITIONS OF FREE  
RADICAL INITIATORS  
J AM CHEM SOC V86 PP914/918 MAR 1964  
BY LAMB R C DDC NUMBER 446136  
PACIFICI J G INSTRUMENT AF/AFOSR /0543/64  
PROJ/TASK 9762 01

AFOSR 64 1515  
MELLON INST OF INDUSTRIAL RESEARCH PITTSBURGH PA  
NEW TYPES OF ORGANOSULFUR DERIVATIVES OF METAL CARBONYLS  
J AM CHEM SOC V86 N6 PP1267/1268 MAR 1964  
BY KING R B DDC NUMBER 446352  
BISNETTE M B INSTRUMENT AF/AFOSR /0580/64  
PROJ/TASK 9710 02

AFOSR 64 1517  
INDIANA U BLOOMINGTON  
ELECTRON DIFFRACTION DETERMINATION OF THE MOLECULAR  
STRUCTURE OF THE BUTYL HALIDES. V. THE STRUCTURE AND  
CONFORMATIONAL ANALYSIS OF ISOBUTYL CHLORIDE  
J AM CHEM SOC V86 PP1286/1288 5 APR 1964  
BY PAULI G H DDC NUMBER 446127  
MOMANY F A INSTRUMENT AF/AFOSR /0602/64  
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AFOSR 64 1518  
INDIANA U BLOOMINGTON  
ANALYTICAL EXPRESSIONS FOR THE HARTREE / FOCK POTENTIAL  
OF NEUTRAL ATOMS AND FOR THE CORRESPONDING SCATTERING  
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J CHEM PHYS V40 N6 PP1686/1691 MAR 64  
BY STRAND T G DDC NUMBER 446132  
BONHAM R A INSTRUMENT AF/AFOSR /0602/64  
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AFOSR 64 1519  
INDIANA U BLOOMINGTON  
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BY BONHAM R A DDC NUMBER 446133  
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AFOSR 64 1540  
INDIANA U BLOOMINGTON  
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J CHEM PHYS V40 N5 PP1396/1401 1 MAR 64  
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PROJ/TASK 9760 02

AFOSR 64 1541  
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TRIMETHYLAZIDO COMPOUNDS OF GROUP IVA ELEMENTS  
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WEST R INSTRUMENT AF/AFOSR /0623/64  
PROJ/TASK 9762 02

AFOSR 64 1542  
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J AM CHEM SOC V86 PP1683/1685 MAY 1964  
BY HERTEL G R DDC NUMBER 446349  
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AFOSR 64 1543  
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AFOSR 64 1544  
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AFOSR 64 1547  
WASHINGTON U SEATTLE  
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BY BOTTGER G L DDC NUMBER 446121  
EGGERS D F JR INSTRUMENT AF 49<638>00797  
PROJ/TASK 9710 03

AFOSR 64 1548  
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AFOSR 64 1549  
CHICAGO U ILL  
PROBES FOR HIGH TEMPERATURE MAGNETIC RESONANCE  
REV SCI INSTR V35 N6 PP680/682 JUN 1964  
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AFOSR 64 1550  
CHICAGO U ILL  
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J CHEM PHYS V40 N10 PP2891 2898 MAY 1964  
BY HAFNER S DDC NUMBER 446111  
NACHTRIEB N H INSTRUMENT AF 49<638>01076  
PROJ/TASK 9710 02

AFOSR 64 1551  
UPPSALA U SWEDEN  
THE CRYSTAL STRUCTURES OF THE ADDUCTS SBCL5.POCL3.SBCL5.  
CH3/ 3PO AND NBCL5.POCL3  
ACTA CHEM SCAND V17 N2 PP353/361 1963  
BY BRANDEN C/I DDC NUMBER 446116  
LINDQVIST I INSTRUMENT AF 61<052>00043  
PROJ/TASK 9760

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AFOSR 64 1553  
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INSTRUMENT AF 61<052>00043  
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ACID REARRANGEMENT OF THE HYDRAZOBENZENES  
J CHEM SOC PP3308/3313 SEP 1962  
BY BANTHORPE D V DDC NUMBER 446117  
HUGHES E D INSTRUMENT AF 61<052>00066

AFOSR 64 1555  
ROYAL INST OF TECH STOCKHOLM SWEDEN  
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BY INGRI N DDC NUMBER 446139  
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PROJ/TASK 9760

AFOSR 64 1557  
ARMY RESEARCH OFFICE DURHAM N C  
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BY MANNING E G INSTRUMENT DA /28/043/AMC/00073  
PROJ/TASK 4751

AFOSR 64 1558  
ARMY RESEARCH OFFICE DURHAM N C  
SYNTHESIS OF PROBABILISTIC COMMUNICATION NETS  
BY BERNARD H M INSTRUMENT DA /28/043/AMC/00073  
PROJ/TASK 4751

AFOSR 64 1559  
ARMY RESEARCH OFFICE DURHAM N C  
TIME OPTIMAL CONTROL OF NON/LINEAR SAMPLED / DATA SYSTEMS  
BY WIN S M INSTRUMENT DA /28/043/AMC/00073  
PROJ/TASK 4751

AFOSR 64 1560  
ARMY RESEARCH OFFICE DURHAM N C  
SOME APPLICATIONS OF LINEAR GRAPHS  
BY CHEN W/K INSTRUMENT DA /28/043/AMC/00073  
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AIRFF A F	AFOSR 64/1419	BAXTER G	AFOSR 64/1624		AFOSR 64/1501	CHAMPLIN E S	AFOSR 64/1746
ALERS G A	AFOSR 64/1231	BAZIAN S	AFOSR 64/1200		AFOSR 64/1501	CHANG C H	AFOSR 64/1339
ALFORD W J	AFCL 64 0630	BEAN W R	AFOSR 64/1379		AFOSR 64/1501	CHANG H V	AFOSR 64/1462
ALGAZI V R	AFOSR 64/1362	BECKMAN O	AFOSR 64/1222		AFOSR 64/1501	CHANG S C	AFOSR 64/1469
ALLEN E F JR	AFCL 64 0414	BEER A C	AFOSR 64/1249		AFOSR 64/1501	CHANG S L	AFOSR 64 1095
ALLEN M B	AFCL 64 0361	BELL T F	AFOSR 64/1376		AFOSR 64/1501	CHANG S M	AFOSR 64/1261
ALLEN T L	AFOSR 64/1521	BELOVE C	AFOSR 64/1314		AFOSR 64/1501	CHARLSON R J	AFCL 64 0493
ALPERT D	AFOSR 5495	BELT R F	ARL 64 0142		AFOSR 64/1501	CHEN C L	AFOSR 64/1360
ALSON L F	AFCL 64 0419	BELTZ C R	AFCL 64 0406		AFOSR 64/1501	CHEN E	AFOSR 64/1395
ALTERMAN Z	AFCL 64 0647	BENER P	AFCL 64 0564		AFOSR 64/1501	CHEN W/E	AFOSR 64/1460
ALTSCHULER M D	ARL 64 0111	BEN/VEHOSHUA S	AFOSR 64/1177		AFOSR 64/1501	CHEN Y S	AFCL 64 0233
AMAT G	AFCL 64 0398	BENOIT A	ARL 64 0130		AFOSR 64/1501	CHENG P	AFOSR 64 1002
AMUNDSEN E O	AFCL 64 0704	BERGBAUM D M	ARL 64 0143		AFOSR 64/1501	CHENG S I	AFOSR 64 0899
ANDO T	AFOSR 64/1496	BEREN/SEY L	AFCL 64 0524		AFOSR 64/1501	CHICHIBU S	AFOSR 64/1707
ANEX B G	AFOSR 64/1522	BEREN/SEY J	AFCL 64 0531		AFOSR 64/1501	CHIU M H	AFOSR 64 0899
	AFOSR 64/1524	BEREN/SEY J	AFOSR 64/1647		AFOSR 64/1501	CHIU Y-C	AFCL 64 0517
ANGRAWI J J	AFOSR 64/1370	BERLIN E D	AFOSR 64/1509		AFOSR 64/1501	CHU A C	AFOSR 64/1731
ANTONI G D	AFCL 64 0487	BERNARD M H	AFOSR 64/1510		AFOSR 64/1501	CHUA L O	AFOSR 64/1566
APPA RAD M V K	AFOSR 4124	BERNE D	AFOSR 64/1558		AFOSR 64/1501	CHUNG K L	AFOSR 64/1603
ARRIA M A	AFOSR 64/1575		AFOSR 64/1525		AFOSR 64/1501	CIAYATTA L	AFOSR 64/1490
ARMINGTON A F	AFCL 64 0476		AFOSR 64/1527		AFOSR 64/1501	CLAPP R E	AFCL 63 0371
ARMITAGE J V	ARL 64 0138		AFOSR 64/1594		AFOSR 64/1501	CLARKE D	AFCL 64 0442
ARMSTRONG D B	AFOSR 64/1746	BERNEY C V	AFOSR 64/1540		AFOSR 64/1501	CLARKE J F R JR	AFOSR 64/1469
ARNOWITT R	AFOSR 64/1196	BERNHARD C G	AFOSR 64/1699		AFOSR 64/1501	CLARKE R W	ORA 64 0001
ASCOLI D	AFOSR 64/1710	BERNHEIM R A	AFOSR 64/1690		AFOSR 64/1501	CLEVELAND S B	AFOSR 64 1610
ASHBY W R	AFOSR 64/1387	BERRY R S	AFOSR 64/1512		AFOSR 64/1501	CLIFFORD A F	AFOSR 64/1737
ASHFORD S L	AFCL 64 0326	BERSHAD N J	AFCL 64 0405		AFOSR 64/1501	CNE G R	AFOSR 64/1465
ATALLA M H	AFCL 64 0673	BERSONN D	AFOSR 64/1690		AFOSR 64/1501	COFFIN J B	AFCL 64 0282
ATHAY R G	AFCL 64 0497	BETTINGER R T	AFCL 64 0429		AFOSR 64/1501	COFFMAN C V	AFOSR 64/1560
	AFCL 64 0498	BIAL K	AFCL 64 0392		AFOSR 64/1501	COHEN D S	AFOSR 64/1600
	AFCL 64 0499	BIELENIEWSKI T	ARL 64 0157		AFOSR 64/1501		AFOSR 64/1601
ATLAS D	AFCL 64 0531	BIGELOW R H	AFOSR 64/1467		AFOSR 64/1501		AFOSR 64/1733
	AFCL 64 0631	BILLIGMEIER J E	AFOSR 64/1506		AFOSR 64/1501	COHEN A	AFCL 64 0462
AUDLEY R J	AFOSR 64/1392	BIRDSALL C K	AFOSR 64 1142		AFOSR 64/1501	COHEN S I	AFOSR 64/1304
	AFOSR 64/1393	BIRNBAUM M R	AFOSR 64 1039		AFOSR 64/1501	COLBURN C H	AFCL 63 0371
AUSTIN T M	AFOSR 64/1509	BISHOP R L	AFOSR 64 1144		AFOSR 64/1501	COLE A E	AFCL 64 0483
AVEN M	AFCL 64 0467		AFOSR 64/1617		AFOSR 64/1501	COLE M J	AFOSR 64/1401
	AFCL 64 0707	BISNETTE M B	AFOSR 64/1535		AFOSR 64/1501	COLEMAN D	AFOSR 64/1464
AVRON M	AFOSR 64/1177	BITTERLICH W	AFOSR 64/1535		AFOSR 64/1501	COLLINS C B	AFOSR 64/1476
	AFOSR 64/1178		AFCL 64 0479		AFOSR 64/1501		AFOSR 64/1477
	AFOSR 64/1181	BITZER M	AFOSR 64/1559		AFOSR 64/1501		AFOSR 64/1481
	AFOSR 64/1184	BLAEGER G M	AFCL 64 0547		AFOSR 64/1501		AFOSR 64/1482
	AFOSR 64/1189	BLISS J C	AFOSR 64/1697		AFOSR 64/1501		AFOSR 64/1484
BACCELLI G	AFOSR 64/1179	BLUMEN M	AFCL 64 0505		AFOSR 64/1501		AFOSR 64/1477
BAER A D	AFOSR 64/1669	BOELLA G	AFCL 64 0487		AFOSR 64/1501		AFOSR 64/1477
BAHE L W	AFOSR 64/1519	BOMUSCH R	AFCL 64 0196		AFOSR 64/1501		AFOSR 64/1477
BAMIANA L C	AFOSR 64/1363	BOLINDER F F	AFCL 64 0460		AFOSR 64/1501		AFOSR 64/1477
BAILLY M	AFCL 64 0358	BOLFF M J	AFCL 64 0567		AFOSR 64/1501		AFOSR 64/1477
BAIRD D M	AFCL 64 0468				AFOSR 64/1501		AFOSR 64/1477
BAKER M R	AFCL 64 0483				AFOSR 64/1501		AFOSR 64/1477
BAKER R G	AFCL 64 0520				AFOSR 64/1501		AFOSR 64/1477

COOPER H W	AFCHL 64 0581	WILLON G F	AFOSR 64/1734	PARSON J H	AFOSR 64/1736	GATLAND I B	AFOSR 64/1727
COOPER J A	AFOSR 64/1732	WILLY M	AFCHL 64 0676	PEMBERTFIELD P C	AFOSR 64/1671	GEF M E	AFCHL 64 0901
COOPER R A	AFOSR 64/1781	WILLY P H	AFOSR 64/1784	PEIL O G	AFOSR 64 0844	GEORGE M	AFCHL 64 0518
COUMLE F C	AFCHL 64 0921		AFOSR 64/1886 AFOSR 64/1887	PELOMAN D W	AFCHL 64 0997	GEORGE S W	AFOSR 64/1741
COUTHIER M	AFOSR 64/1710	DILWORTH C	AFCHL 64 0687	PELOMAN P A	AFCHL 64 0696	GERSTEIN C L	AFOSR 64/1976
COVERT F F	AFCHL 64 0782	NEWMAN M A	AFCHL 64 0921	PERNER P A	AFOSR 64/1882	GESE D W	AFOSR 64/1911
COVIAN M B	AFOSR 64/1777	DINTZIL F R	AFOSR 1148	PERHARN A J	AFCHL 64 0651	GHASTI M S	AFCHL 64 01-1
COLEY A	AFOSR 64/1799 AFOSR 64/1806 AFOSR 64/1897 AFOSR 64/1899	DIPITRO M A	AFCHL 64 0618	PERRI A	AFOSR 64/1671	GIACCONE R	AFCHL 64 0614
		DISTLER R C	AFCHL 64 0696	PICHERA B	ARL 64 0120	GIORG M	AFOSR 1194
COLE R C	AFCHL 64 0908	DODD C G	AFOSR 64/1563	PIFLD J C	AFCHL 64 0941	GIBSON F G	AFCHL 64 0848
COLE M L JR	AFOSR 64/1539	DONO R T JR	AFCHL 64 0624	PINEMAN M A	AFCHL 64 0919	GIFER C	AFOSR 64 1141
CRAFORD M G	AFOSR 64/1971	DONNEY M	AFOSR 64/1144	PISHOURNF E S	ARL 64 0143	GIFSEKING D L	AFOSR 64/1999
CRANE L B	AFCHL 64 0965	ROMANUS J D	ARL 64 0115	PISHER R L	AFCHL 64 0928	GILL S J	AFOSR 1148
CRANDALL S M	AFOSR 64 1057	MALDON R J JR	AFCHL 64 0632	PISHMAN F	AFOSR 1926 AFOSR 64/1944	GILLSPIE R J	AFOSR 64/1929 AFOSR 64/1930 AFOSR 64/1931 AFOSR 64/1932
CRANFORD F W	ARL 64 0137 ARL 64 0139	ROFFMAN M	AFOSR 64/1690	PITTS P M	AFOSR 64/1164		
CRANFORD J A	ARL 64 0122	ROUFFS D	AFCHL 64 0258	PLATT M A	AFCHL 64 0765	GILMORE R	AFCHL 64 0664
CRESCENZI V	AFOSR 64/1692	DOYLE W D	AFCHL 64 0620	PIRM M	AFOSR 64/1168	GILMUR M P	AFCHL 64 0526
CROUSE P F	AFCHL 64 0529	DUAGSDORF R D	AFOSR 64/1669	PLEON N P	AFCHL 64 0941	GODART J	AFCHL 64 0644
CRUZ J B JR	AFOSR 64/1568	DRANF C J JR	AFCHL 64 0764	PLEBIN J V	AFCHL 64 0668	GOFFMAN C	AFOSR 64/1920
CULVER C M	AFOSR 64/1904	DREVINSEY P J	AFCHL 64 0521	PLEBY P J	AFOSR 64/1692 AFOSR 64/1693	GOLD V	AFOSR 64/1694
CUMMINGS P	AFCHL 64 0609	DUBOIS J T	ARL 64 0118 ARL 64 0121 ARL 64 0126	FLUGGE/LOTZ I	AFOSR 64/1720	GOLDFERG J	AFCHL 64 0576
CURTIS A L	AFCHL 64 0406	DUCKWORTH M E	AFOSR 64 1144	POHUEL S P	AFOSR 2694 AFOSR 64/1636	GOLDFERN L S I	AFOSR 64/1817
CURTIS M A	AFOSR 64 0860	DUFFIN R	AFCHL 64 0643	POLEY M M	AFOSR 64/1965	GOLDSTEIN J	AFCHL 64 0928 AFCHL 64 0572
CUTLER P M	AFOSR 64/1219 AFOSR 64/1220 AFOSR 64/1221	DUFFIN R J	AFCHL 64 0568	POLESTAD K	AFCHL 64 0907	GOLMAN D	AFCHL 64 0614
		DUNCAN J F	AFOSR 64/1909	POWLIS M W	AFCHL 64 0946	GOLMUR C G	AFCHL 64 0341
CZORPITA S	AFCHL 64 0421	EBRING D D	AFOSR 64/1523	POH M	AFOSR 64/1396	GONCHILDS J D	AFOSR 2984
CZYZ W	AFOSR 64/1154	ECK T G	AFOSR 64/1236	FOX J D	AFOSR 64 1165	GONDMAN L J	AFCHL 64 0622
DALY G J	AFCHL 64 0128	ECKERT E R G	ARL 64 0149	FOX T G	AFOSR 64/1944	GORDON M L	AFOSR 64/1236
DAMON D M	AFOSR 64/1250	ECKHARDT D M	AFCHL 64 0542	FRALICE S C	AFOSR 64/1937	GOSSELM R P	AFOSR 1327
DANNHAUSER M	AFOSR 64/1919	EDELMANN W	AFCHL 64 0600	FRANK D F	ARL 64 0158	GOULD R W	AFOSR 64/1972
DASH J G	AFOSR 64/1747	FOER M F	AFCHL 64 0546	FRANLIN M F	AFCHL 64 0917	GOVINDARAJULU Z	AFOSR 64/1609
DAVID C W	AFOSR 64/1912	FOER M	AFOSR 64/1974 AFOSR 64/1975	FRANLIN T C	AFCHL 64 0917	GRAD M	AFOSR 64/1647
DAVIDSON D	AFCHL 64 0408	EDEN R J	AFOSR 64/1150	FRANZ F A	AFOSR 64/1961	GRANMELTYFOY A	AFCHL 64 0906
DAVIES J T	AFOSR 64/1216	EDWARDS P D	AFOSR 64/1667	FREEDMAN S J	AFOSR 64 0938	GRAHRT M	AFOSR 64/1629 AFOSR 64/1630
DAVIS M T	AFOSR 64/1926	EDSE R	ARL 64 0143	FREEMAN A J	AFOSR 64/1251	GRAY F G	AFOSR 64/1687 AFOSR 64/1704
DAVIS J C	AFOSR 64/1219	EDWARDS J R	AFCHL 64 0147	FREEMAN C G	AFOSR 64/1918	GNAY P	AFOSR 64/1917
DAVIS M P	ARL 64 0133	EDWARDS W	AFOSR 64/1699	FREEMAN M	AFOSR 64/1986	GRAYBILL F A	AFOSR 64/1639 AFOSR 64/1640 AFOSR 64/1641
DAVIS R M	AFOSR 64 1146 AFOSR 64 1147	EGELAND A	AFCHL 64 0553	FRIEDMAN L	AFOSR 64/1215		
DAVIS R T	AFOSR 64/1720	EGGERS D F JR	AFOSR 2150 AFOSR 64/1947 AFOSR 64/1948	FRIEDMAN M	AFOSR 64/1207	GREEN J S A	AFCHL 64 0931
DE VITO L	ARL 64 0147			FRINABEN J	AFCHL 64 0588	GREENWOOD A	ARL 64 0152
DECOURSEY G	AFOSR 64/1693	FILIPPOVIC S	AFOSR 64/1602	FRINN G	ARL 64 0148	GREGORY R L	AFOSR 64/1908
DECOURSEY P J	AFOSR 64/1692 AFOSR 64/1693	FIRICH P R	AFOSR 2062	FRISCH I T	AFOSR 64/1981	GREV J	ARL 64 0125 ARL 64 0132
DEFOUN R J	AFCHL 64 0689	FLEMAN P	AFCHL 64 0470	FRISCH G J	AFOSR 64/1928	GRIFFIN C E	AFOSR 64/1689
DELL P C	AFOSR 64/1270 AFOSR 64/1651	ELIASSEN A	AFCHL 64 0506	FROST A D	AFCHL 64 0447 AFCHL 64 0648	GRIFFIN J M	AFCHL 64 0607
DELVAIDE P J	AFOSR 64/1191	ELLIOTT D	AFOSR 64/1735	FRUEN D J	AFOSR 64 0901	GRIFFIN A	AFOSR 64/1617
DEWMAN M F	AFOSR 64/1947	ELLYETT C D	AFCHL 64 0438	FUJIMORI F	AFCHL 64 0416	GRONEMANN U F	AFOSR 64/1964
DER J JR	ARL 64 0146	FLSPAS B	AFCHL 64 0376	FULLERTON M P	ARL 64 0152	GROSS C G	AFOSR 64/1298
DERVISOGU A	AFOSR 64/1967	FLTFMAN L	AFCHL 64 0400	FUTRELL J M	ARL 64 0128	GRITEN E	AFCHL 64 0576 AFCHL 64 0576
DESAI K R	AFOSR 64/1414	FURSON M T	AFOSR 7198	GAPFROH M	AFOSR 64/1172	GROVE C S JR	AFCHL 64 0627
DESENOVIA J L	AFOSR 9495	ENGELBART D C	AFOSR 3223	GALINDO V	AFOSR 64/1985	GRUNET A	AFCHL 64 0322
DESER S	AFOSR 64/1156	ERICKSON M F	AFOSR 64/1747	GALLIFAU J	AFOSR 64 0474	GRUNBAUM B	AFOSR 2698 AFOSR 4584 AFOSR 64/1635
DESLATTES R D	AFOSR 64/1762 AFOSR 64/1761	ERIKSSON L	AFOSR 64/1222	GALLANT R M	AFCHL 64 0606		
DESMEDY J E	AFOSR 64/1191	ESTABLF C	AFOSR 64/1434	GALLO P	AFOSR 64/1197	GUARD J R	AFCHL 64 0411
DESMET L	AFOSR 64/1714	EVANS P A	AFCHL 64 0564	GALTIERI C A	AFOSR 64/1107	GUAZZI M	AFOSR 64/1179
DESSY R F	AFOSR 64/1465	PATRICIUS E	AFOSR 2940 293	GAMMING R J	AFOSR 64/1200 AFOSR 64/1204	GUGENWEINER M	AFOSR 64/1610
DEPTACH S	AFCHL 64 0781	PARTH P A	AFOSR 64/1737	GARDER L	AFOSR 64/1986	GUIDROZ R R	AFCHL 64 0528
DEXTER D L	AFOSR 64/1238	PAIRF A C	AFCHL 64 0554	GARINN J S	AFCHL 64 0484	GUMNICK J L	AFCHL 64 0328
DI BARTOLO B	AFOSR 64/1968	FALCK B	AFOSR 64/1173	GARISTA A M	AFOSR 64/1620	GUNDERSON P D	AFOSR 64/1746
DIJAZ J B	AFOSR 64/1731	FAN C Y	AFOSR 64 1148	GARVIN P L	AFOSR 64/1992	GUNTHER G	AFOSR 64/1981
		PANT C G	AFCHL 64 0762				

MUSTAPASHOV A	AFCR 64 0470 AFCR 64 0470 AFCR 64 0471	WIDE B	AFCR 64 0444	IZUMI Y	AFOSR 64/1416	ELCHISTEY C W	AFOSR 64/1300
MARALLER M	AFCR 64 0465	WIGGINS J A	AFCR 64 0440	JACAVANCO D J	AFCR 64 0444	ELMS R B	AFOSR 64/1305
MADANI A	AFCR 64 0400	WIGGINS J F	AFCR 64 0400	JACOBS P	AFCR 64 0411	ELMS R W D	AFOSR 64/1308 AFOSR 64/1309
MADHUP S	AFOSR 64/1049 AFOSR 64/1444	WILSON J S	AFCR 64 0320	JACOBSON A D	ARL 64 0112	ELAUSNER S J	AFOSR 64/1300
MADGETTAL J	AFOSR 64/1171 AFOSR 64/1187	WILLARD R	AFOSR 64/1167	JACOBSON R L	AFOSR 64 0004	ELENN L M	AFOSR 64/1010 AFOSR 64/1014 AFOSR 64/1019
MADIMARA A	AFOSR 64/1707	WILLENDAM D R	AFCR 64 0204	JAFFE J W	AFOSR 64/1704	ELIOT S J	AFOSR 64/1270
MADSTRON S	AFOSR 64/1020	WILTON J S	AFOSR 64/1049 AFOSR 64/1002	JAMMONY J	AFOSR 64/1479	ELIUSSEN F	AFCR 64 0402
MALL L A	AFCR 64 0297	WINEFELMAN E	AFCR 64 0000	JANSSON A	AFOSR 64/1908 293	ELM D A	AFOSR 64 0133 AFOSR 64/1400
MALL R H	AFCR 64 0407 AFCR 64 0702	WINTERFELDER M F	AFCR 64 0797	JENSEN E	AFOSR 64/1350	ELMH M T	AFCR 64 0172
MALLER F	AFOSR 64/1171	WISATIMPE I C	AFOSR 64/1207 AFOSR 64/1208 AFOSR 64/1209	JENSEN M A	AFOSR 64/1213	CONSTANTINE P	AFOSR 64 0409
MALLOS P R	AFOSR 64/1901	MO T/C	AFOSR 64 0031	JENNIFER N F	AFOSR 64/1213	KOPPELMAN W	AFOSR 64/1010
MALPER J	AFOSR 64/1226	MOCKEY R W	AFOSR 64/1348 AFOSR 64/1349	JONES P E	AFOSR 64/1675	KORBERG M L	AFOSR 64/1103
MALSTON R F	ARL 64 0105	MOCKEY R W	AFOSR 64/1330	JOHNSON A A	ARL 64 0131	KORNFELD P	AFOSR 64 0047
MAMILLON D C	AFOSR 64/1213	MOFF R J	AFOSR 64/1037	JOHNSON R W	AFOSR 64 0147	KOSKI M S	AFOSR 64/1502 AFOSR 64/1503
MAMILLON M J	AFOSR 64/1606	MORGAN J J	AFOSR 64/1070 AFOSR 64/1071	JOHNSON W G	ARL 64 0135	KOSOVER F M	AFOSR 64/1400 AFOSR 64/1401
MAMM J J	AFCR 64 0404	MORGAN R G	AFOSR 64 1104	JOICE J T	AFOSR 64/1624	KRANC G M	AFOSR 64/1312
MAMMAUER C F	AFCR 64 0459	MOGLING G	AFOSR 64 1104	JONA F	AFOSR 64/1241 AFOSR 64/1242	KRASCILLA M	AFOSR 64/1504
MAMMON W J	AFCR 64 0414	MOLLAND S S JR	AFOSR 64/1713	JONAS J	AFOSR 64/1106	KREEVOY M M	AFOSR 64 1412
MARANG L	AFCR 64 0401 AFCR 64 0427 AFCR 64 0428	MOLLIS R L	AFOSR 64/1449	JONES A V	AFOSR 64 0430 AFOSR 64 0439	KREEVOY M M	AFOSR 64/1502
MARANG O	AFCR 64 0401	MOLM J D	AFOSR 64/1244	JONES G S	AFOSR 3150 AFOSR 64/1710	KREINDLER E	AFOSR 64/1313
MARBY E R	AFCR 64 0431	MOLT J F	AFOSR 64/1073	JONES R A	AFOSR 64 0400	KREINDLER R A	AFOSR 64/1412
MARBY P J	AFCR 64 0431	MOLWAY L M	AFOSR 64 0171	JOSS J	AFOSR 64 0431	KRIEGER F M	AFOSR 64/1174
MARP R S	ARL 64 0137 ARL 64 0138 ARL 64 0139	MORRIS G	AFOSR 64 0531	JOHNSON M	AFOSR 64/1307	KRISHNAN P R	ARL 64 0124
MARRAR M J	AFOSR 2614	MORRIS F F	AFOSR 64/1190	JUGARU J	AFOSR 64/1307	KUERS G	AFOSR 64 0507
MARRISON A A	AFOSR 64/1157	MORRIS F F	AFOSR 64 0503	JURY E I	AFOSR 64/1316	KUPER C G	AFOSR 64 1213
MARRISON C W JR	AFOSR 64/1462	MORRIS F F	AFOSR 64/1222	KABLER M H	AFOSR 6472	KURZ L	AFOSR 64 0200
MARTER L	ARL 64 0123	MORRIS F F	AFOSR 64/1917	KAMAH A	AFOSR 64 0477	KUMATA E	AFOSR 64/1511
MARTMAN P	AFOSR 4819 AFOSR 64/1000	MOSOKAWA I	AFOSR 64 1113	KAMAH D	AFOSR 64 0171	KUSHNER M J	AFOSR 64/1323
MARVY D J	ARL 64 0162	MOUSE L L	AFOSR 64 0497	KAMM W E	AFOSR 64/1302	LACHER J R	ARL 64 0004
MASEGAWA A	AFOSR 64 1142	MOUSLEY R H	AFOSR 64/1747	KALMAN G	ARL 64 0140	LADD J A	AFOSR 64 0406 AFOSR 64 0500
MASELAPRO F V	AFOSR 64 0600	HOWARD J M	AFOSR 64 0404	KAMM G N	AFOSR 64/1231	LADENMAN A J	AFOSR 64/1676
MASELL M A	AFOSR 64 0157	HOWE C A	AFOSR 64/1533	KANDLER O	AFOSR 64/1650	LADENSTROM P A	AFOSR 64/1323
MALUP F M	AFOSR 64 0620	HUGHES F D	AFOSR 64/1554	KANG I K	AFOSR 64 0520	LAMA P G	AFOSR 64/1007
MALWITZ R	AFOSR 64 0500 AFOSR 64 0612	HUGHES E J	ARL 64 0131	KANG K D	AFOSR 64 0541	LAKSHMIKANTHAM V	AFOSR 64/1717
MAUSZ W	AFOSR 64 0196	HUGHES M P	AFOSR 64 0250	KANTON A J	AFOSR 64 0403 AFOSR 64 0400	LAMB R C	AFOSR 64/1534
MAZONY D	AFOSR 64 0500	MUGUMIN G R	AFOSR 64 0357 AFOSR 64 0596	KAPLAN M	AFOSR 64/1244 AFOSR 64/1245	LAMB R W	ARL 64 0004
MEBERT R A	AFOSR 64 0290	MULL G W JR	AFOSR 64/1734	KARLE J	AFOSR 64/1540	LAMBERT K G	AFOSR 64 0204
MECHT G J	AFOSR 64/1072	MUMPHRIES J F	AFOSR 64/1190	KASHIMARA T R	AFOSR 64 0421	LAMBERT R M	AFOSR 64 0337
MEIDT L J	AFOSR 64 0431	MUNT M S	AFOSR 64 0435	KASZEMAN P	AFOSR 64/1391	LAMME F W	ARL 64 0120
MEIKILA K F	AFOSR 64 0470	MUNT R M	AFOSR 64 0660	KATAPRAKIS J	AFOSR 64/1369	LANDMAN A	AFOSR 64/1500
MEISKANEN W A	AFOSR 64 0504	MUNT W W JR	AFOSR 64 0519 AFOSR 64 0501	KATZ S	AFOSR 64 0177	LANDSBERG P T	AFOSR 64 0504
PELLINELL R A	AFOSR 64/1369	MUNTER D M	AFOSR 64 0430	KAUTZ W M	AFOSR 64 0452	LAPALIA S R	ARL 64 0154
MENDRICKS C D JR	AFOSR 64/1671	MUNT W B	AFOSR 64/1074	KAWAMATA M	AFOSR 64 0517	LARSEN R	AFOSR 64 0627
MENLEY F	AFOSR 64/1440	MUSSEY R J	AFOSR 64/1224	KEFFFF F	AFOSR 64/1509 193	LARSEN S M H	AFOSR 64 0624
MENRY J	AFOSR 64/1270	MYDE G	AFOSR 64 0292	KEILY D P	AFOSR 64 0621	LARSEN T	AFOSR 64 0457 AFOSR 64 0509
HERBERT R E	AFOSR 64 0004 AFOSR 64 0007 AFOSR 64 1030	IBREYSON A	AFOSR 64 0546	KELLER J A	AFOSR 64/1665	LARSON R I	AFOSR 64/1336
HERING W S	AFOSR 64 0030	IBREYSON A	AFOSR 64 0546	KELLER J A	AFOSR 64/1665	LASALLE J P	AFOSR 64/1326 AFOSR 64/1640
HERNANCE C E	AFOSR 64/1606	IBREYSON A	AFOSR 64 0546	KELLEY J J	AFOSR 64/1612	LASSETTE E M	AFOSR 64 0609
HERTEL R R	AFOSR 64/1462 AFOSR 64/1463	ILIFF R L	AFOSR 64/1496 AFOSR 64/1497 AFOSR 64/1498	KELLY R F	AFOSR 64/1662	LAURENCE T R	AFOSR 64 0456
HERTEL R H	AFOSR 64/1372	INGRAM M G	AFOSR 64 0475	KENDIG A P	AFOSR 64/1667	LAX B	AFOSR 64/1100 AFOSR 64/1226 AFOSR 64/1254
HESTER R A	AFOSR 64/1403	INGRI M	AFOSR 64 0106	KENNICOTT P R	AFOSR 64 0702	LEBLANC M A R	AFOSR 64/1504
HEUMANN F F	AFOSR 64 0407	INOMATA S	AFOSR 64/1555	KERNEY M	AFOSR 64/1630	LECOMTE J	AFOSR 64 0400
MEYERDAHL R E	ARL 64 0102	INOMATA S	AFOSR 64/1159	KERNEY M	AFOSR 64/1630	LEE F	AFOSR 64 0501
MICKMAN C E	AFOSR 64 0555	ITO M	AFOSR 64/1400	KEVANE C J	AFOSR 64/1670	LEE M S	AFOSR 64 0431
MINA F	ARL 64 0115	ITOM T	AFOSR 64 0517	KEVORKIAN J	AFOSR 64/1574	LEE K S M	AFOSR 5967
		IWAMOTO R T	AFOSR 64/1515	KICE J L	AFOSR 64/1500		
				KILMER W L	AFOSR 64 0403		



LEE R C	AFOSR 64/1369			MIDTAL J	AFOSR 64/1236	WACHTRIFER N H	AFOSR 64/1349
LEE T M	ARL 64 0192			MIGOTTE M	AFCL 64 0569	WADFAU J S	AFOSR 64/1349
LEPSTY T S	AFOSR 64/1608	WALMORNS T	AFOSR 64/1187	MILLER B I	AFOSR 64/1257	WAGBUSHMAN M	AFOSR 64/1310
LEVY D N	AFOSR 2766	WALBY P	AFCL 64 0619	MILLER J M	AFOSR 64 0901	WAGARAJA E S	ARL 64 0156
LEWIS J	AFOSR 64/1907	WANCE O J JR	ARL 64 0083	MILLER E	AFOSR 64/1401	WAGELFROG T R	AFOSR 64 0803
LEWIS P O	AFCL 64 0513	WANKINI A	AFCL 64 0446	MILLER M G	AFOSR 6472	WAGY A R JR	ARL 64 0116
	AFCL 64 0516	WANDER G	AFOSR 64/1291	MILLER R C	AFOSR 64/1250	WAIMAN S	AFCL 64 0456
LENN P J	AFOSR 64 1000	WANN B	AFOSR 64/1013	MINE M	AFOSR 64/1321		AFCL 64 0464
LEVENSTEIN M	AFCL 64 0363	WANNING T G	AFOSR 64/1937		AFOSR 64/1736	WAKA F/I	AFOSR 64/1707
LEVER M F	AFOSR 64/1259	WANSBACH M	AFOSR 64/1516	WINKOWICH A	AFOSR 64/1406	WALLAR R	AFOSR 64/1708
LEVINE L W	AFOSR 64/1611	WARCUS R A	AFOSR 64/1610	WINDHAM M J	AFCL 64 0322	WANCISI R S	AFCL 64 0462
LEVINSTEIN M	AFOSR 64/1249	WARGENTON D W	AFOSR 64/1410	WINNICK R C	AFCL 64 0176	WAPFER A M	AFOSR 64/1306
LEVY D N	AFOSR 64/1612		AFOSR 64/1406	WINZNER B A	AFCL 64 0450	WEAL A G	AFOSR 64/1306
LEWIS E A	AFOSR 64/1612		AFOSR 64/1406	MITCHELL D	AFOSR 64/1176	WEFF M P	AFCL 64 0553
LEWIS R M	AFCL 64 0461		AFOSR 64/1607	MITCHELL G E	AFOSR 64 1146	WEFF M D	AFOSR 64/1161
LIANG C	AFOSR 64/1613	WARE M B JR	AFOSR 64/1608		AFOSR 64 1147	WEMARI Z	AFOSR 64/1342
LIDBY P A	AFCL 64 0517		AFOSR 700	MITCHELL B F	AFOSR 64 0476		AFOSR 64/1612
LIGGETT J	AFOSR 64/1399	WARE J E	AFOSR 709	MITCHELL R C	AFOSR 64/1665	WELSON D	AFOSR 64/1301
LIGGETT J	AFOSR 64/1179		AFOSR 64/1492	MOFFAT J W	AFOSR 64/1727	WELSON I V	AFOSR 64/1515
LIEBERMAN B B	AFOSR 64/1642	WADDLE D T F	AFOSR 64/1494	MOJONI A	AFOSR 64/1214		AFOSR 64/1516
LIEBERMAN P	AFCL 64 0476	WADSDEN M V R	ARL 64 0145	MOLLER F	AFCL 64 0567	WELCHER B W	AFOSR 64/1722
LILLESTON C T	AFOSR 64/1672	WADSEILLAN R F	AFOSR 64/1706	MONAHY P A	AFOSR 64/1337		AFOSR 64/1732
LILLEY A F	AFCL 64 0596	MARTIN C R	AFOSR 64/1174	MONGY M	AFOSR 64/1223	NICHOLS L D	AFCL 64 0159
LINDQUIST E C	AFCL 64 0240	MARTORANA S V	AFOSR 64/1250	MONTAGNER N B	AFOSR 64/1738	NIELSEN A M	AFCL 64 0863
LINDQUIST I	AFOSR 64/1501	MASON A A	OSR 64 0010	MOORE C F	AFOSR 64/1738	NILES F E	AFOSR 64/1403
LINDQUIST M	AFOSR 64/1169	MASSA R J	AFCL 63 0863	MOORE J C	AFOSR 64 1145	NISSEKAWA S	AFCL 64 0478
LINDSTROM E S	AFOSR 64/1269	MATTHEWS P T	AFCL 64 0478	MORAY N	AFOSR 64/1602	NISHINA Y	AFOSR 64/1276
LINSCHITZ M	AFCL 64 0291	MATURANA M R	AFOSR 64/1151	MORGAN J E	AFOSR 64/1308	NIXON J	AFOSR 64/1402
LIPSON M G	AFCL 64 0477	MATUSUDA F	AFOSR 64/1720	MORGAN M G	AFCL 64 0462	NORINDER M	AFCL 64 0482
LIGUORNIK D J	AFOSR 64 0660	MAXWELL A	AFCL 64 0517		AFCL 63 0772		AFCL 64 0488
LISZKA L	AFCL 64 0353	MAXWELL J C	AFCL 64 0609	MORITZ M	AFCL 64 0566	MORUZZI G	AFOSR 64/1702
	AFCL 64 0560	MAXWELL J C	AFCL 63 0971	MORVED F M	AFOSR 64/1508	MOTZ W	AFCL 64 0454
LITTLELL A	AFOSR 64/1270	MAXWELL J C	AFOSR 64/1554	MORRIS L A	AFOSR 64/1229	NOVICE R	AFOSR 64/1366
LLOYD E F	AFOSR 64/1163	MCALLEVY R F III	AFOSR 64/1648	MORRIS M L	ARL 64 0127		AFOSR 64/1371
	AFOSR 64/1302	MCCANN S M	AFOSR 64/1708	MORRIS A M	AFOSR 64/1266	NOYES W A JR	AFOSR 64/1500
LOPESKI J J	ARL 64 0191	MCCLELLAND D	AFCL 64 0517		AFOSR 64/1267	OBERMAYER A S	AFCL 64 0359
LONDON J	AFCL 64 0501	MCCLEINTOCK C G	AFOSR 64/1197	MORRIS M	AFCL 64 0568	OCABRA P	AFOSR 64/1176
	AFCL 64 0612		AFOSR 64/1166	MORRIS M T	AFOSR 64/1533	OCONOR J	AFOSR 64/1389
LOPEZ M E	AFCL 64 0465	MCCUBBIN T K	AFCL 64 0324	MORUZZI G	AFOSR 64/1709	ODIAN G	AFOSR 64/1408
LORENZ G G	AFOSR 64/1250	MCCULLOCH W S	AFCL 64 0463	MORUZZI V L	AFOSR 64/1203	OGAWA M	AFCL 64 0549
	AFOSR 64/1710	MCDANIEL A	AFCL 64 0517	MOSER J K	AFOSR 64/1319	OGG R A	AFOSR 1474
LOUKES T L	AFOSR 64/1220	MCDERMOTT M H	AFOSR 64/1366	MOSHIER R W	ARL 64 0127	OGUCHI T	AFOSR 1474
	AFOSR 64/1221		AFOSR 64/1379	MOSHEWITZ S E	AFOSR 64 0861	OMECHIA C	AFOSR 1474
LOW M	AFOSR 64/1572	MCDONALD R L	AFOSR 64/1506	MOSKOWITZ S F	AFCL 64 0531	OLSON F A	AFCL 64 0245
LOWEN G	ARL 64 0134	MCDONOUGH W M	AFCL 64 0596	MOTT-SMITH J C	AFCL 64 0478	OLSON J R	AFOSR 2766
LOWE L F	AFCL 64 0634	MCBEE K F	AFCL 64 0591	MOTZKIN T S	AFOSR 64/1635	OMMOLT A	AFCL 64 0461
LOWRY B A	AFOSR 64/1526	MCQUIRE T R	AFOSR 64/1199	MOULIN	AFOSR 64/1635		AFCL 64 0625
LUBELFELD J	AFCL 64 0509	MCILVAIN M	AFOSR 64/1205		AFOSR 64/1205	OMUCHIC N	AFOSR 64/1408
LUDLAM P M	AFCL 64 0531	MCILVAIN M	AFOSR 64/1703	MOUNTCASTLE V R	AFOSR 64 1139		AFOSR 64/1717
LUEHR C	AFCL 64 0196	MCILVAIN M	AFOSR 64/1711	MUELLER I I	AFOSR 64 1140	OPPFENHEIM A F	AFOSR 64/1672
LIMACH E	AFOSR 64/1606	MCILVAIN M	AFOSR 64/1725	MUELLER R E	AFOSR 64/1743		AFOSR 64/1676
	AFOSR 64/1607	MCILVAIN M	AFOSR 64/1725	MUELLER R E	AFOSR 64/1743	ORRY S	AFOSR 64/1637
LURIO A	AFOSR 64/1371	MCILVAIN M	AFOSR 64/1725	MUELLER R E	AFOSR 64/1743	ORVILLE-THOMAS W J	AFCL 64 0486
MACDOUGALL J D	AFOSR 64 1164	MCILVAIN M	AFOSR 64/1725	MUELLER R E	AFOSR 64/1743		AFCL 64 0508
MADE M	AFOSR 64/1242	MCILVAIN M	AFOSR 64/1725	MUELLER R E	AFOSR 64/1743	OSBORN J R	AFOSR 64/1479
	AFOSR 64/1243	MCILVAIN M	AFOSR 64/1725	MUELLER R E	AFOSR 64/1743		AFOSR 64/1480
MACLEIN W C	AFCL 64 0531	MCILVAIN M	AFOSR 64/1725	MUELLER R E	AFOSR 64/1743	OSKAM M J	AFCL 64 0560
MACLANE G R	AFOSR 3240	MCILVAIN M	AFOSR 64/1725	MUELLER R E	AFOSR 64/1743	OSWALD W J	AFCL 64 0341
	AFOSR 64/1506	MCILVAIN M	AFOSR 64/1725	MUELLER R E	AFOSR 64/1743	OTTOSON D	AFOSR 64/1690
MACMILLAN R S	AFOSR 64 1101	MCILVAIN M	AFOSR 64/1725	MUELLER R E	AFOSR 64/1743	OVERMEYER J	AFOSR 64/1202
MADANSKY L	AFOSR 64/1403	MCILVAIN M	AFOSR 64/1725	MUELLER R E	AFOSR 64/1743		AFOSR 64/1204
MAFFEI L	AFOSR 64/1710	MCILVAIN M	AFOSR 64/1725	MUELLER R E	AFOSR 64/1743	OWMAN C	AFOSR 64/1173
MAFFITT K M	AFOSR 64/1743	MCILVAIN M	AFOSR 64/1725	MUELLER R E	AFOSR 64/1743	PACIFICI J G	AFOSR 64/1534
	AFOSR 64/1745	MCILVAIN M	AFOSR 64/1725	MUELLER R E	AFOSR 64/1743	PALESTINI M	AFOSR 64/1196
MAGILL D T	AFOSR 64/1333	MCILVAIN M	AFOSR 64/1725	MUELLER R E	AFOSR 64/1743	PANAR M	AFCL 64 0359
MAGNI F	AFOSR 64/1701	MCILVAIN M	AFOSR 64/1725	MUELLER R E	AFOSR 64/1743	PANELLA R F	AFOSR 64/1600
MAKER P D	AFCL 64 0660	MCILVAIN M	AFOSR 64/1725	MUELLER R E	AFOSR 64/1743		
MALDONADO M	AFOSR 64/1683	MCILVAIN M	AFOSR 64/1725	MUELLER R E	AFOSR 64/1743		

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STODOL J AFCL 64 0990  
 STUBIAN V S AFOSR 64/1294  
 SWIFT J E AFOSR 64/1199  
 SULLIVAN S A AFCL 64 0401  
 SUMMERSFIELD M AFOSR 4493  
 AFOSR 64/1044  
 SWANSON S AFOSR 64/1047  
 SWANSON S S AFOSR 64/1272  
 TAKAHATAKE V AFOSR 64/1171  
 TAKAMI M AFOSR 64/1298  
 TAKEANO A AFOSR 64 0075  
 TALLAN R M ARL 64 0133  
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 TANAKA Y AFCL 64 0349  
 TANG T W AFCL 64 0370  
 TAYLOR J AFOSR 64/1242  
 TAYLOR J M AFOSR 64/1243  
 TAYLOR J R AFOSR 64/1100  
 TAYLOR R C AFCL 64 0327  
 AFOSR 64/1217  
 TEARBY D T AFOSR 64/1203  
 TEICH A M AFCL 64 0359  
 TEBRELL T AFOSR 64/1100  
 TEPLEY L AFCL 64 0204  
 THAYER J S AFOSR 64/1341  
 THELWELL P AFOSR 64/1240  
 THOMAS J R AFOSR 64/1270  
 THOMAS R AFOSR 64/1100  
 AFOSR 64/1714  
 THOMASSEN A R AFCL 64 0532  
 ARL 64 0534  
 THORNTON E R AFOSR 64/1220  
 THURSTON S A AFOSR 64/1027  
 TIFFORD A R ARL 64 0136  
 TILLMAN J D AFCL 64 0555  
 TIMBLEY D S AFOSR 64/1342  
 TIMMOFF A AFCL 64 0556  
 TITMAN C W AFCL 64 0546  
 TONGINORE P AFOSR 64/1701  
 TOOTH T AFOSR 64/1290 4493  
 TORALDO DE PERALTA R AFCL 64 0604  
 TOU C P AFCL 64 0611  
 TOWNSEND A A AFCL 64 0402  
 TRACY J M AFCL 64 0147  
 TRAINOR J M AFCL 64 0550  
 TRENTACOSTE R AFOSR 64/1072  
 TRINDLE W AFOSR 64/1349  
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 TUCK D S ARL 64 0114  
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 TURNER J P AFOSR 1135  
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 TURVIN R AFCL 64 0137  
 ULFENDORF H R AFOSR 64/1706  
 UNGER H R AFCL 64 0539  
 URTY P A AFOSR 64/1076  
 VAN DER PIP J P AFOSR 64/1144  
 VAN HEMERT R L ARL 64 0110  
 VAN ITTERBEEK A AFOSR 64/1249  
 VAN ROOIJZEN P AFOSR 64 1144  
 VAN VALKENBURG H E AFOSR 64/1356  
 VANWILDERD C AFCL 64 0448

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 VERHOEF S AFOSR 64/1240  
 VEST R W ARL 64 0122  
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 VON KICH M AFCL 64 0345  
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 WAGGHE R M W AFOSR 4493  
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 WILKINSON P ARL 64 0126  
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 WITTMANN S AFOSR 64/1089  
 WOODBURY M K AFCL 64 0467  
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 WU T T AFOSR 64/1343

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 WURM E AFOSR 63 0479  
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 AFOSR 64 0040  
 WYLLIE A A AFCL 64 0415  
 AFOSR 64 0416  
 YARIS R AFOSR 64/1040  
 YOUNG S O AFOSR 64 1141  
 YOUNG J Z AFOSR 54/1042  
 AFOSR 64/1007  
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 AFOSR 64/1705  
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 ZAPP M R AFCL 64 0072  
 ZELLER E AFOSR 64/1719  
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 ZUKOSKI E E AFOSR 64 0448  
 ZYGMUND A AFOSR 64/1614

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		APCRL 64 0555	AFOSR 64/1358			APCRL 64 0506	APCRL 64 0574		
		APCRL 64 0648	AFOSR 64/1359				APCRL 64 0575		
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		APCRL 64 0639	AFOSR 64/1361	6670	03	APCRL 64 0471			APCRL 64 0475
4600	04	APCRL 64 0472	AFOSR 64/1362	6672	03	APCRL 64 0631	7600	07	APCRL 64 0363
		APCRL 64 0473	AFOSR 64/1363			APCRL 64 0632	7601	09	APCRL 64 0322
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		APCRL 64 0538	AFOSR 64/1367	6687		APCRL 64 0462	7635	07	APCRL 64 0106
		APCRL 64 0696	AFOSR 64/1368	6687	01	APCRL 64 0398			APCRL 64 0414
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		APCRL 64 0355	AFOSR 64/1370	6687	06	APCRL 64 0398	7635	04	APCRL 64 0525
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AFCLR	66 040
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## **ZCNE04PART II: THE PHYSICAL PROPERTIES OF THE EMISSIONS**

AFOSR 64-1417  
AFCL 64 0628

IN EXPERIMENTS AT HIGH PRESSURE & 300 DEGREES K, ADAPTABLE  
IN ATMOSPHERIC & PRESSURE AND DENSITY SCALE HEIGHTS D

AFOSR 64-1737  
AFOSR 64-1740  
AFCLR 64 0490



IN MEASUREMENT OF PRESSURE INDUCED SHIFTS OF ABSORPTION CHANGES IN PARTIAL DIODE AND PARTIAL OF 10000 AND TEMPERATURE AND ADENOSINE 5' OF THE ADENOSINE 5' SYNTHESIS OF CP CONDITIONAL PACE RESETE THE RESONANCE IS FOR THE CALCIUM METRIC A HIGH ALTITUDE ROCKET OF THE PLASMA RESONANCE SHEATHS ABOUT LANGMUIR TIVE IONOSPHERIC ROCKET RANGE HIGH FREQUENCY SINGULAR PERTURBATION ADJOINT BOUNDARY VALUE UNS TO IMPROPERLY POSED LINEAR BOUNDARY VALUE COMBUSTION REVIEW OF INEQUALITY CONSTRAINT THE E ELASTICSTATICS ADJOINT BOUNDARY VALUE A BRANCHING STOCHASTIC PRIMARY PHOTOCHEMICAL THE POSITIVE LEARNING CATION OF DISCRETE TIME EMERAL THEORY OF MARKOV NAME USE OF GAS - ION LEARNING ACTIVE JUL 1964 ELECTRICAL INSUL MULTIPHONON AND CP COMPETITIVE STRATOSPHERIC TRANSPORT CP MULTIPLE SPIN FLIP IONS CATHODE COLLISION V OF SAMPLED STOCHASTIC RESEARCH IN DECISION VISUAL INFORMATION PROBLEMOriented SYMBOL TABLES AND THEIR APPLIE EFFECTS ON KINETICS AND RELATIONS IN THE DOPPLER ROUGHNESS AND THE WIND AND VELOCITY ELECTRON DENSITY WIND AND TEMPERATURE REEADOR CONTRIBUTION TO ACE VARIABLE DYNAMIC CSX-1 MACHINE LANGUAGE EASURE FOR GAME PLAYING REGULAR BODIES III, THE OF NORMAL MODES TO HAVE TURBULENT FLAME A SPHERE, 10 JUL 1964 NUCLEAR CRYSTALS IN IONOSPHERIC LONG RANGE AR HIGH FREQUENCY RADIO JUL 1964 INVESTIGATION OF BURNING RATE OF A SOLID FINAL RESEARCH ON SOLID RADIATION INDUCED SOLID N OF THE REACTION SOLID THE SURFACE OF A SOLID RATES OF SOLID ROCKET LIZATHE USE OF FOAMED AND COMBUSTION OF SOLID REPORT, MAY 6 PLASMA OF THE 65000 STABILITY OF THE SYNTHESIS AND NG MEDICARESEARCH ON MEMBRANE AND ELECTRICAL 25 AT 4 THERMODYNAMIC ALT FILMS, ATHE MAGNETIC ED FLUIDS, & PHYSICAL TS STUDY OF COHERENCE JUNE 1964 AREA 110 THE PHYSICAL ALGEBRAIC PROPERTIES OF THE METHOD OF PROPERTIES OF TELEVISION PICTURES & FEATURES BY THE METHOD OF PROPERTIES OF TOEPLITZ OPERATORS NSPER IN CYGESSULPHORYL HYDRIDES FROM CNE & PROTEIN AFFINITIES OF SOME FIRST ROW 35-REV EXTRATERRESTRIAL EXCHANGE SCATTERING OF FORWARD DEVELOPMENT OF 1964 A NOTE ON CARBON ASSIMILATION BY IZATION OF ITACONATE BY INDEPENDENCE, AND THE AGATION OF AN SHETORQUE ELECTROMAGNETIC NOISE AND VARIABLE FREQUENCY LIQUID PARTICLES UNDER RELAXATION OF OPTICALLY RELAXATION OF OPTICALLY PUMPED RUBIDIUM ATOMS IN MOLECULAR MEASUREMENTS BY PARALLEL PUMPING, APR 1964 & MAGNETOELASTIC NATURE INFRARED CELL FOR PURE LIQUIDS OR SOLUTIONS & TEMPER A ISOLATED WATER IN THE PURIFICATION REGION & OF MATRI RELEASING FACTOR FROM A PURITY BORON VIA THE LIGAND JUNE ELIBRIUM IONOMETRIC PURITY CONTROL OF SALT MEDIA FOR EQU ZATION MEASUREMENTS OF HIGH PURITY NICKEL TAPES & ON MAGNETI PROBABILISTIC JIGSAW PUZZLES - THE COMPUTER SOLUTION OF A COMPO ACS, 1. THE PYROLYSIS OF FLUORINATED ORGANIC COM CENTRATIONS AND 6. BEP, P32, P33, AND 535 STRATOSPHERIC CON ATIONS AND 6. BEP, P32, P33, AND 535 STRATOSPHERIC CONCENTR

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QUANTUM EFFECTS ON THE QUANTUM DESCRIPTIONS ON COMMUNICATION QUANTUM OSCILLATIONS IN ULTRASONIC AND VOLT EFFECTS QUANTUM THEORY OF INTERBAND PARADAY IN THE RANGE OF ONE QUANTUM TO ONE WAVELENGTH IN SIZE C DEFECTS IN CRYSTALLINE QUANTUM 6 17 JUNE 1964 & MOSES AT QUANTUM - LINEAR SEQUENTIAL MACHINES CM QUENCHING METHOD, 15 FEB 1964 & ST BY CHRYSEN ESTIMULATED QUENCHING OF MOLECULAR FLUORESCENCE AND HETEROCYCLIC QUINONOID COMPOUNDS, 30 APR 1964 LIR APPLICATIONS AND QUOTIENTS OF RANDOM VARIABLES AND TH LURCHS IN THE RETINA OF RABBITS & CP COPOLYMER CONTAINING N AND SCATTERED STUDIES IN RADAR CROSS SECTIONS ELITE DIFFRACTION FOR SIMULTANEOUS RADAR OBSERVATION OF MULTIPLE TARGET ING SPENCY MAIL AUGUSTE RADAR REFLECTIVITY OF STORMS CONTAIN LY SLON GROWTH, WITHOUT RADIAL LIPSITS & OF ARBITRARY OF TWO-DIMENSIONAL RADIATING GAS FLOW BY A MOMENT METHO RATED IN PRIMARY COSMIC RADIATION THE MEASURES PLUS MEAS ON ULTRAVIOLET SKY RADIATION HAT 330 MU AND 370 MU, SEP 1964 RADIATION EFFECTS IN SEMICONDUCTORS, HIGHWAY ANTENNAS IN RADIATION FIELDS ASSOCIATED WITH SHU ATEC VERY LOW FREQUENCY RADIATION FROM THE IONOSPHERE STIMUL CELESTIAL BACKGROUND RADIATION I, A REVISED SCALE CP COMPOSITION, FINAL RADIATION INDUCED SOLID PROPELLANT D CORRELATION, CP RADIATION LOSS FROM AN ARGON ARCADE, INUP RELEASE RESONANCE RADIATION OF AIG FROM TRIMETHYL ALUM CYRACACUSTIC WAVES & CN RADIATION OF ELECTROMAGNETIC AND ELE MOP POINT SOURCES IN A RADIATION PATTERN OF SURFACE WAVES F LARIZED ELECTROMAGNETIC RADIATION, JUN 1964 OF PARTIALLY PO BODY AND OPTIC RADIATIONS IN AWAKE AND SLEEPING COLLISION PROCESSES, RADIATIVE CAPTURE OF ELECTRONS BY OF RATE FACTORS IN FREE RADICAL AROMATIC SUBSTITUTION OF KINETICS AND FREE RADICAL EFFICIENCIES IN THE THERMAL DECOMPOSITIONS OF FREE RADICAL INITIATORS & IN THE THERMAL THYLENE THE CATION RADICAL OF TETRACIS-DIMETHYLAMINO - F LORINE ATOMS AND PERCHY RADICALS & II, REACTIONS OF CH IC ETHERS TOWARD PERCHY RADICALS & ARALKENES, AND BENZYL CP EXCESS STABLE RADICALS, THE SIMULTANEOUS DETERMIN REACTIONS OF ATOMS AND RADICALS, II, REACTIONS OF CHLORINE ME REACTIONS OF CERTAIN RADICALS, FINAL REPORT, AUG 1964 & T EMISSION 6 JULY 1964 RADIC EVIDENCE FOR SOLAR COMPOUSCULAR TO THE ERRORS IN RADIC INTERFEROMETER TRACKING SYSTEM FROM MEASUREMENTS OF RADIC NOISE AT C.70C MC AND 2.200 MC LASUREMENTS OF THE 5 KC RADIC NOISE NEAR MADRID, 15 MAY 1964 POLAR HIGH FREQUENCY RADIC PROPAGATION STUDY, 30 JUN 1964 OF PHASE AND AMPLITUDE RADIC WAVE INTERACTION AT UNIVERSITY HEIGHT OF LOW FREQUENCY RADIC WAVES 20 JULY 1964 & VIRTUAL RADIOACTIVITY IN SPUTNIK 4 FRAGMENT 6 JULY 1964 RADIONICHEL IONOSPHERE AND THEIR EXCHANGE WITH RADICSONDE, JUN 1964 & OF THE AN-ARCE21 MULTICHANNEL RADICSONDEY THEOREM IN DIMENSION L ATTICES 6 JUNE 1964 RADIATION BEHAVIOUR COMPONENTS OF THE CA TS ADIOTIC NERVE ON SHAR RAMAN SPECTRA OF AQUEOUS SOLUTIONS O F INDULP SULFATE, NITR IONS A RAMAN STUDY OF CALCIUM BROMIDE SOLUT IONS A RAMAN CHANNEL COMBINATIONS & FOR CAPTIVE CAPABILITY IN RANDOM CHANNEL COMBINATIONS & FOR OF A NONLINEAR BEAM TO RANDOM EXCITATION RESPONSE NONLINEAR BEAM SUBJECT TO RANDOM EXCITATION & STRESSES IN A NO AND CONTROL CP RANDOP PARAMETER DISCRETE SYSTEMS RANDOP VARIATION OF THEIR APPLICATI RANDOP VIBRATION OF A NONLINEAR OSCI RANDOP VIBRATIONS OF NONLINEAR ELAST RANDOP METHOD FOR THE FITTING OF TO THE NEWTON- RANDOP METHOD FOR THE FITTING OF AND DISTORTION OF RARE EARTH CRYSTAL FIELD SPECTRA TRANSITIONS IN RARE EARTH NIOBATES AND TANTALATES RARE GAS ION REACTIONS WITH AMMONIA RARE EARTH DIOPOEC SILICON, APR 1964 AND STUDY OF DEPRESSOR FIBERS IN THE RAT - AN ELECTROPHYSIOLOGICAL STUDY C SUBSTITUTED VALIDITY OF RATE FACTORS IN FREE RADICAL AROMATI AUGER RATE IN MESSIC ATOMS REP 6 SOLIC TRANSPORT RATE IN THE VAPOR-SOLVENT GROWTH SYS SUREMENT OF THE BURNING RATE OF A SOLID PROPELLANT & MEA SPEECH EFFECTS OF RATE OF UTTERANCE AND DURATION OF CP THE BURNING RATES OF SOLID ROCKET PROPELLANTS AS LIMITS OF RATIONAL FUNCTIONS OF BEST APPROXIMA I & FIREBALL AND GAMMA RAY BLACKOUT, 31 MAR 1964 VOL II & F THE CENTROID OF AN X-RAY DISTRIBUTION THE DETERMINATION O OF THE COSMIC X-RAY NEUTRON FLUX AT 45 DEGREE GEONAG ATOP IN A HYDROGEN & X-RAY SCATTERING FACTOR OF A HYDROGEN ALTITUDE VARIATION OF RAYLEIGH, AEROSOL, AND OZONE ATTENUA ALTERING FACTORS FOR X-RAYS AND ELECTRONS & ATOMIC SC ALTERING FACTORS FOR X-RAYS AND ELECTRONS CORRESPONDING SC HIGH SPEED VISCOUS AND REACTING FLOWS, FINAL REPORT, JUL ICHNICH OF THE REACTION FIELD ADJACENT TO THE SURFA STUDY OF THE REACTION OF IODINE WITH ACTIVE NITRO M NONHALOGEN ACID THE REACTION OF VINYLCHLORIDE IODIDE MIT SULFIDE - SULFINIC ACID REACTION. VI. THE MECHANISM OF THE DI AL PUMPING AND CHEMICAL REACTIONS OPTIC DE AND PASS & GAS PHASE REACTIONS BETWEEN CARBON TETRACHLORI CHANGE AND IONOMOLECULE REACTIONS JULY 1964 ENERGY CHARGE EX AND DISSOCIATION REACTIONS OCCURRING INSIDE THE POTEN OF THE POLAR EFFECT IN REACTIONS OF ATOMS AND RADICALS. MOLECULES AND THE REACTIONS OF CERTAIN RADICALS, FINAL ATOMS AND RADICALS, II REACTIONS OF CHLORINE ATOMS AND IONS. IONOMOLECULE REACTIONS OF ETHANE, 30 APR 1964 IONS. IONOMOLECULE REACTIONS OF METHANE, 6 APR 1964 PLEXES EXCHANGE REACTIONS OF MULTIDENTATE LIGAND COM MECHANISMS OF REACTIONS OF SULFINIC ACIDS, VI. THE DISPLACEMENT REACTIONS ON ORGANOPHOSPHORUS ESTERS RARE GAS ION REACTIONS WITH AMMONIA LAYERS WITH CHEMICAL REACTIONS, FINAL REPORT, JUN 1964 NE CHEMISTRY, FINAL & REACTIVE INTERMEDIATES IN CYCLOPROP A SUBSTITUTIONS, XRV, REACTIVITY OF ARALKENES, ARALKENES, COSMETRY OF THE HIT REACTOR MEDICAL THERAPY FACILITY ATMOSPHERE AND A FILM READER SYSTEM AND ANALOG STATISTICAL ORGANIC SULFUR DIOXIDE REAGENT & USING DIMETHYLEP STRUCTURE OF ORGANIZING REAGENTS, I & ON ORGANOPHOSPH CS AND PRODUCTS OF ACID REARRANGEMENT OF THE HYDRAZOBENZENE BENZIDINE AND SEMIDINE REARRANGEMENTS, PART I, SUBSTRATE LYATION AS A FUNCTION OF RECALL POINT CODING SHORT TERM RET Y THEORY RECENT ADVANCES IN LITAPYNO STABILITY M THE SCATTERING OF & RECENT EXPERIMENTAL INVESTIGATIONS O ENT ELECTROMAGNETIC & RECEPTION AND TRANSMISSION OF TRANSI VLP WAVE ANTENNAS FOR RECEPTION OF TRANSPOLAR SPERICS ICHN IN THE COMPOUND & RECEPTION SENSITIVITY AND PIGMENT POS THE & STUDIES ON THE RECEPTIONS IN THE CEREBRAL VESICLE OF EXPERIMENTS ON COMPUTER RECOGNITION OF CONNECTED HANDWRITTEN HOL BY ADAPTIVE PATTERN RECOGNITION TECHNIQUES & CONT

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 MPICAL BASIS OF PATTERN RECOGNITION, FINAL REPORT, SEP 1964  
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 THE 6 MEASUREMENT OF RECOIL - FREE FRACTIONS IN STUDIES OF  
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 LECTING FVCKEL RESPONSES RECORDED FROM AUDITORY CORTEX & AFF  
 OF A PHASELOCK IN PATTERN RECOGNITION: THE COMPUTER SOLUTION  
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 DNGY HAIL AUGUST GRADAR REFLECTIVITY OF STORMS CONTAINING SP  
 SYNTHESIS OF DUAL REFLECTOR ANTENNAS  
 6 REGION OF A SPHERICAL REFLECTOR, PART I, MAR 1964 & FOCA  
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 WHEN PARTICLES ARE REGARDED AS DISTINCTION SYSTEMS  
 AL REPORT, JULY/NEURONE REGENERATION AND NEUROPHYSIOLOGY, FI  
 IAN OF PIONS REGIOE POLE THEORY OF THE PHOTOPRODUC  
 ER IN THE PURE ROTATION REGION & OF MATRIX ISOLATED WAT  
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